DICK SMITH ELECTRONICS CATALOGUE 77-78

Hans Tholstrup and Midland CB Radio take on Bass Straight

REFERENCE MANUAL FOR THE PROFESSIONAL AND THE ENTHUSIAST

HI FI — CAR RADIO — COMMUNICATION EQUIPMENT — TOOLS
BOOKS — INSTRUMENTS — COMPONENTS — CALCULATORS

75¢

7th edition

Mail Order Department

Hi Fi Department – City Store, Sydney

Communication Department – Gore Hill Store, Sydney

Our Wide Range of Electronic Books

Our Shops are Stocked for the Enthusiast

Bulk Warehouse & Distribution Centre

Yes Virginia .....

there is a Dick Smith. To prove it here he is beside the 747 Jumbo at the Sydney Airport prior to the First Commercial Flight to the South Magnetic Pole. Dick astounded the business world and travel industry when he chartered two 747 Jumbo flights over the polar wastelands – so much so – that they have now become regular commercial flights.

The Australian Company

DICK SMITH ELECTRONICS PTY LTD

Head Office: 24 Carlotta [illegible] Australia
Postal Address: P.O. Box [illegible] Sydney.
Telephone: 439 5311 (10 [illegible]

ATTENTION :- THIS IS A REPRINT OF OUR MAY 1977 CATALOGUE. MANY PRICES HAVE CHANGED SINCE ITS PUBLICATION SO PLEASE CHECK ALL PRICES WITH OUR BRANCHES OR OUR MAIL ORDER DEPARTMENT.

Dear Customer,

Hello again! Here we are back again with this 7th (yes, seventh!) edition of our now famous catalogue. This new catalogue is even larger than last year's beauty and, as you can see, we are now printing on a high-quality paper which makes our illustrations even easier for you to see. Also, we have colour inserts to give you a really good idea of some of our more popular products.

1976 was a very busy year for us, but we are still trying hard to bring our services even closer to you. As many of you probably know, we now have a store in Melbourne and another in Brisbane. These stores have been an instant success. For those who cannot visit our stores, we have established a chain of dealers right across Australia. These dealers are all independent Australian businesses dedicated to serve you. Most of them are enthusiasts just like yourselves. Look in our ads for the dealer nearest you.

But let's not forget our valued mail-order customers, of course. We have completely overhauled this department and it is now more efficient than ever!

None of this would mean anything if we had nothing to sell. Well, we certainly have plenty to sell! Top-of-the-line comes the new range of Playmaster speaker systems, the 3/75L 12" 3-way and the compact 3/53L 10" 3-way. I have taken a personal interest in the design of these and they represent the best value-for-money for years. But they are only a couple of the hundreds of new products for this year and next. And they're all in this catalogue!

Speaking of design, I have in fact taken a large part in the design of many projects — such as the Playmaster Twin 25 & 40/40 amps, the new Musicolor 111, the ETI TV game and the new EA digital frequency meter. Where such co-operation exists between the electronics magazines and the suppliers, nothing but good can result. The finished project is naturally oriented to the supply of readily available high quality components.

We have taken no shortcuts in the preparation of this catalogue to make it even more useful for technical information and a buying guide. We hope you'll agree!

Finally, check our prices. Again you will find that some of our prices are up to 70% lower than our main competitor. Remember it pays to compare before you buy.

Only one more thing to say . . . "It's over to you!"

Dick Smith
VK2ZIP

P.S. We are pleased to say that despite the increase of foreign owned suppliers from the USA and New Zealand we are still fully Australian owned — and proud of it!

Dick

Electronic Centres at Sydney, Gore Hill, Bankstown, Brisbane, Melbourne and Dealers in all States

GENERAL INFORMATION AND CONDITIONS

PRICES

All prices include all applicable discounts and in many cases are well below recognised "Trade" prices. All prices shown are correct at the time of compiling this catalogue but are subject to change without notice. All price savings shown in this catalogue are either savings off our normal price or off our competitors normal selling price for equivalent goods.

QUANTITY PRICES

On many of our imported lines we can offer extremely attractive prices for large quantities. Please write your requirements to the Manager, D.S. Distributors, 24 Carlotta St., Artarmon. N.S.W. 2064.

SALES TAX

All prices shown include sales tax where applicable. (Many of the items we sell are tax exempt). Goods can only be supplied less tax if:

1. A sales tax number or exemption certficate is quoted on an official order;

   or

2. The goods are to be directly exported by us;

   and

3. In all cases the minimum total value of each ITEM is at least $10.00

Simply send in your order and we will deduct tax wherever possible.

SALES TO RESELLERS

To keep prices down to hobbyist, who are our main customers, all sales tax is paid on our goods on the understanding that they are not to be resold. Resellers should contact our distribution company, D.S. Distributors, 24 Carlotta St., Artarmon. 2064 if they can purchase in large quantities.

CREDIT ACCOUNTS

We do not operate general credit accounts and we suggest that customers use their Bankcard whenever possible. However credit will be extended to Government and Semi-government departments, educational establishments and public companies. Simply send in your official order (no credit application is necessary) and the goods will be charged to you on a strict 30 day basis. Minimum invoice amount on credit accounts is $10.00.

BANKCARD

Minimum bankcard charge amount for personal shoppers is $5.00. As a new service, mail order customers are now able to charge purchases over $50.00 in value.

GOODS NOT IN THIS CATALOGUE

We only stock the goods shown in this catalogue and our regular advertisements in Electronics Australia, Electronics Today and other magazines. We do not purchase special goods for customers.

BUSINESS HOURS

Dick Smith (Wholesale) Pty. Ltd. stores are open Monday to Friday from 9am to 5.30pm and Saturday mornings from 9 am to 12noon. Our dealers are generally open during these hours also.

SUBSTITUTION

We will substitute on an equal or better basis wherever availability or purchasing power makes such a subsitution to your advantage. All prices and specifications in this catalogue are subject to change without notice.

NOTE: Prices could be slighlty higher at Branches, Interstate Branches and Dick Smith Dealers because of freight costs.

SPECIAL NOTE

Some items in this catalogue are in fact so new that they will not be available in Australia until July or August 1977. As the catalogue is current for 12 months, we wanted to include them. We trust you will understand.

SCHOOLS

We are happy to supply you against your official order. No credit application is necessary,. We will invoice you on a 30-day account. With the new electronics course in the curriculum we would like to be your supplier.

★★★★★★★★★★

GUARANTEES

1. MANUFACTURER'S GUARANTEE

All manufacturer's guarantees are fully valid on products we sell.

2. SATISFACTION GUARANTEE

If for any reason you are not satisfied with your purchase, return the goods to us within 7 days of purchase in the original carton and we will exchage or return your money less transportation costs. Goods returned must be unmarked and in the exact condition as supplied. You must include all sales dockets when you return the goods. This policy does not apply to semiconductors, valves, books, pre-recorded tapes or any items specially ordered.

★★★★★★★★★★

HOW TO WRITE TO US .. .. .. OR SEND US GOODS

PLEASE READ CAREFULLY

We inspect all orders carefully, before shipment is made, to ensure that the merchandise is in first class condition. Then extra care is exercised in packing all merchandise to assure its safe arrival. If, in spite of all these precautions, it still becomes necessary to return an item, to guarantee prompt and proper handling:

1. Advise us by letter enclosed in parcel.
   a. Reason you would like to return the item.
   b. Page No., Catalogue No., and Description.
   c. Provide your Mail Order number and other pertinent data.
   d. Adjustment you wish us to make: repair, replacement, exchange, credit or refund.

2. Pack the merchandise carefully to protect against damage, and send back to us prepaid (see illustration at right)

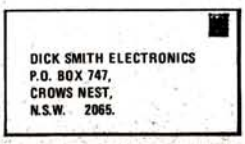
3. Returns are made at the sender's risk — be sure to insure the package.

ONLY IF THE FOREGOING INSTRUCTIONS ARE FOLLOWED WILL CREDIT BE MADE. In addition, the return will be properly directed and handled much more efficently and much more promptly. If the procedure outlined above is not followed, we cannot guarantee the prompt and satisfactory handling of your problem.

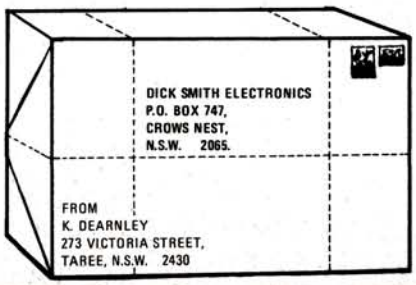
Please print or write plainly and address the parcel to :

P.O. Box 747,
Crows Nest.
N.S.W. 2065

Put correct amount of postage or freight on parcel.



Please print your full name and complete return address plainly both on the letter and in the upper left hand corner of the parcel, as illustrated, with "FROM" in front of your name.
Please wrap parcel in strong paper and tie securely.



MAIL ORDER INFORMATION

All prices in this catalogue are current as at commencement of printing — 7th April, 1977

DESPATCH OF ORDERS
All goods in stock are despatched promplty. Goods out of stock are 'Back Ordered' and sent later at our expense (and it's an extremely costly job) unless we advise otherwise. All Back Orders are despatched immediately we receive the goods from our suppliers. When we send a copy of your order back to you, the delay times will be quoted. Unfortunately we cannot guarantee their accuracy.

ENQUIRIES ON ORDERS
If you wish to enquire in any way about your order, please give FULL DETAILS. Give date of posting order, name, address and postcode, approximate list or parts ordered, any relevant mail order/cash sale/ invoice numbers. If the above are not given we have no way of checking your order.

PHONE ENQUIRIES ON ORDERS
You are welcome to enquire about your mail order by phone. Simply ask for "Mail Order Enquiries". When connected give the following information: your name, postcode and the information you require. You will then be asked to phone back in 15 minutes. You will appreciate that with over 25,000 mail order customers, it may take us a little time to locate your order. Phoning back saves you time and expense-especially with STD calls. It also saves jamming our switchboard.

DAMAGED GOODS
All claims for damaged or missing goods must be filed directly with the carrier concerned — do not open parcel if you suspect that goods are damaged.

MINIMUM MAIL ORDER VALUE
The minimum mail order amount is $5.00 unless otherwise implied in "Special Offers" through the electronics magazines.

PAYMENTS
Postal order, money order or crossed cheque to be sent with order. DO NOT SEND "CASH" through the post. Please make money orders payable at the Crows Nest Post Office.

OPEN CHEQUES
If you are not sure of the total amount of your mail order and are paying by cheque, simply cross the cheque and leave the amount blank. We will then fill in the exact cost of goods and delivery charges. This eliminates charging for small balances or issuing refund vouchers. Many of our customers have been using this system for years and find it very satisfactory.

C.O.D. ORDERS
C.O.D. goods may only be sent by post. A $3.00 deposit must be sent with orders and please remember that C.O.D. charges are high.

BANKCARD
For your convenience, we have introduced BANKCARD to make your purchases even easier. The minimum Mail Order value by BANKCARD is $50.00. This is made necessary as we have to phone BANKCARD each time for authorization — a costly time consuming job.

REGISTRATION AND INSURANCE
The customer may nominate registration and insurance for his goods. Where this is not specified the goods are sent at the customer's — your — risk!

TECHNICAL INFORMATION
Unfortunately time does not allow us to answer technical enquiries. We have tried to give the most comprehensive specifications we can. If you need more information we suggest you contact the manufacturer or electronic magazines who may be able to help you. **NOTE:** Always put your enquiries on a SEPARATE piece of paper with your name and address. Otherwise your mail order will be delayed.

ORDER FORMS
To speed delivery we have pre-printed Order Forms (see centre of catalogue). All orders on this form receive preferential treatment. Extra forms are available free of charge if requested and one is enclosed with each order.

PRICES
If prices vary, the new price will be shown on your delivery advice and a debit or credit issued. You may return the goods for a full credit under our satisfaction guarantee if you are not satisfied.

FOREIGN SHIPMENTS
We are happy to sell to foreign countries and will send goods with Customs dockets attached. We cannot however provide full Customs documentation and we remind customers that our guarantees are 'ex-store'.

DICK SMITH DEALERS ARE SITUATED THROUGHOUT AUSTRALIA
As they all operate as completely in independent businessmen. Terms and conditions of sale will vary from one dealer to another.
Prices will also vary as the Dealer must pay freight costs and also additional sales tax on most goods.
Watch our regular advertisments in E.A. and E.T.I. for the address of the Dealer nearest to you.

DICK SMITH ELECTRONICS GROUP

Importers, Wholesalers & Retailers of Electronic Equipment

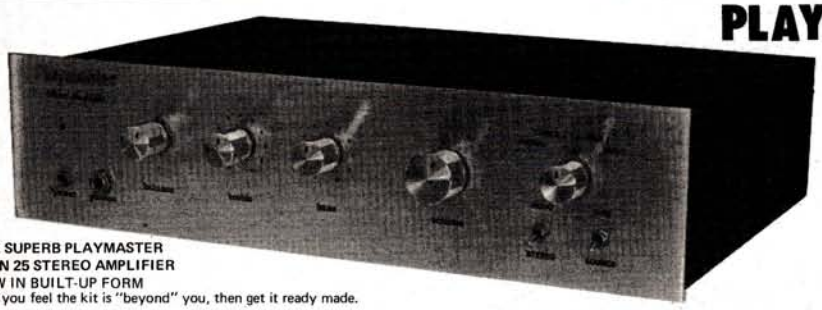
Head Office **Bulk Warehouse** **Distribution Centre** **Mail Orders**	24 Carlotta Street, Artarmon, N.S.W., 2064. Phone 02-439 5311 (10 lines) Cables: Diksmit Sydney. Telex: AA 20036.
Postal Address for all Correspondence and Mail Orders	P.O. Box 747, Crows Nest, 2065, N.S.W., Australia.
Postal Address for D. S. Distributors Correspondence	24 Carlotta Street, Artarmon, N.S.W., 2064.

BRANCH STORES LOCATED AT

SYDNEY	SYDNEY	SYDNEY	MELBOURNE	BRISBANE
162 Pacific Hwy, Gore Hill. Ph. 439 5311	125 York St, Sydney. Ph. 29 1126	361 Hume Hwy. Bankstown. Ph. 709 6600	656 Bridge Rd, Richmond. Ph. 42 1614	166 Logan Rd, Buranda. Ph. 391 6233

HI-FI DEPARTMENT AT OUR GORE HILL STORE

PLAYMASTER TWIN 25



THE SUPERB PLAYMASTER TWIN 25 STEREO AMPLIFIER
NOW IN BUILT-UP FORM
– If you feel the kit is "beyond" you, then get it ready made.

Leo Simpson of Electronics Australia designed this sensational Twin 25 stereo amplifier kit and now we can offer the same specifications in a ready made unit.
The same beaut cabinet,controls and specifications make this unit one of the best values for money on the market – comparable 25 watt amps cost at least 30% more.

SPECIFICATIONS:

		One Channel	Both Channels
Power Output:	4 ohms	35W	27W
	8 ohms	25W	22W
Frequency Response:	Phono RIAA equalisation 1 dB from 30 hz to 20 Khz.		
Input Sensitivity:	Phono:	2mV 56K	
	High Level:	150 mV 36K	
Hum & Noise:	Phono:	70 dB unweighted with typical cartridge	
Total Harmonic Distortion:	At full power into both channels from 25 – 20 Khz less than 0.2% Typical listening level – 0.05%.		
Tone Controls:	Bass:	+12 –13 dB @ 50hz	
	Treble:	±10 dB @ 10 Khz	
Stability:	Unconditional		

Cat. A-1266 .. .. **$129.00**

$129

WATTMASTER – THE TOP DECK

DOLBY STEREO

BULK BUY PRICE

$159

Now with the tremendous experience gained from the fantastic CSD I, Wattmaster presents a new seven key, high quality tape transport mechanism plus a new integrated circuit 'Dolby System'. Features include • Fast forward • Rewind • Stop • Pause • Eject • CrO_2 switching • Twin VU meters • Mic Inputs • Headphone output • New improved autostop incorporating a micro drag reed sensor system • Plus! Plus! Plus!
Neatly styled in an ultra slim low profile cabinet with black trim.
Size (mm) 370 (W) x 220 (D) x 85 (H).
Cat. A-3681 .. .. **$159.00**

DICK'S VALUE PLUS SPECIAL

Southern Cross

VALUE IN AUDIO

DICK SMITH EXCLUSIVE

$120 EACH

SOUTHERN CROSS STEREO TUNER AM/FM MODEL A 1400 WITH PHASE LOCK LOOP
Complement your new Southern Cross amplifier with this superb tuner – offering features normally found on higher priced units. Finished in walnut, with a black facia to highlight any home. This tuner has a built in meter for 'spot on' sound in conjunction with the smooth tuning knob. For AM reception there's a DX/local switch for weak/strong signals. For FM there's an AFC (automatic frequency control) for spot on tuning without fade. Three push buttons allow choice of AM/FM/FM stereo.

Specifications:

FM frequency:	88 – 108MHz
AM frequency:	535 – 1605kHz
Max. FM sensitivity:	5uV @ 98MHz
MPX separation:	34dB
AM image rejection:	35dB
Output:	120mV (AM & FM)
Dimensions:	330 (W) x 224 (D) x 110 (H) mm

Cat. A-1400 .. .. **$120.00**

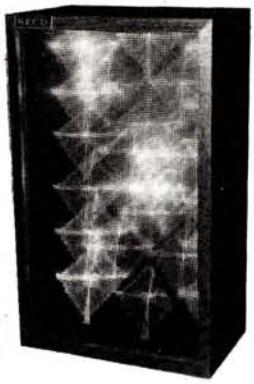
SOUTHERN CROSS STEREO AMPLIFIER MODEL A 1270
A deluxe full control stereo amplifier presented in the 'in colours' of black facia with walnut finished case. This 10 watts rms per channel amplifier has just the amount of control needed for delightful sound reproduction. Run two sets of speakers separately or simultaneously; push the loudness button for quiet late-night 'full sound' listening; push the hi-filter for reproduction without treble hiss; play your cassettes or tapes by using the 'tape monitor' switch . . .
Push button selector for 2 phono cartridges, tuner & aux. Graduations on main controls; bass, treble, volume & balance, allow precise setting of desired listening comfort.

Specifications:

Power output:	10W + 10W RMS at 8 ohms
Harmonic Distortion:	less than 0.8% @ 5 watts
Power Bandwidth:	40 – 40,000Hz
Inp. Sensitivity –	Phono 1 (ceramic): 200mV; 1.5M ohms
	Phono 2 (magnetic): 2.5mV; 47k ohms
	Aux: 160mV; 100k ohms
	Tuner: 100mV; 68k ohms
	Tape (Din): 250mV; 100k ohms
Hum & Noise:	Phono 1, 56dB
	Phono 2, Tuner & Aux, 50dB
Power source:	240V AC
Dimensions:	330 (W) x 224 (D) x 110 (H) mm

Cat. A-1270 .. .. **$120.00**

THE WORLD OF MUSIC WITH AN EXPLOSION OF COLOUR!



Used with virtually any sound source with provision for external speakers — simply connect to speaker terminals and your colour organ will then light up — no drop on power because music only switches lights; does not power them.

Specifications:
Voltage: 240V AC
Channels: 3, 5 colours.
Red for low frequency
yellow for lower middle
green for upper middle
blue for high
violet for ultra high
Input to activate: 0.1W from any 3 ohm to 10 ohm output
Number of lights: 30
Type of pattern: Dimensional diamond brilliance.
Dimensions: 460 (H) x 290 (W) x 185 (D) mm
Accs: Operating instructions, audio connecting cord
Cat. A-4950 .. .. $59.50

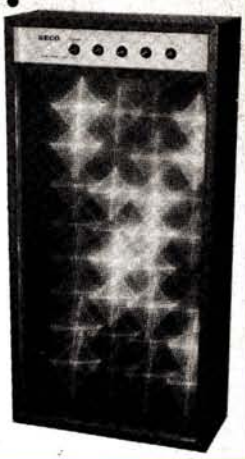
DICK'S VALUE PLUS SPECIAL

FANTASTIC VALUE

from $59.50

Our large model has a brilliant display of 32 diamond patterns flashing via master sensitivity control. On/off switch located on rear of unit. (If unit is to be used with high power amplifiers, a limiting resistor will be required).

Large model 4050X: this has four colours & four channels which gives a pattern as on smaller model, but with 32 lights. Master control sets sensitivity, but also has individual control of each colour group.
THIS IS THE B-I-G, PROFESSIONAL UNIT!
Cat. A-4952 .. .. $99.90



SIMILAR FULLY IMPORTED SYSTEMS CAN COST 50% MORE*

Speakers shown without de-luxe foam fronts.

DICK'S VALUE PLUS SPECIAL

Southern Cross

SPEAKER SYSTEM MODEL 350

HIGH QUALITY

$199 pair

*SPEAKERS AS USED IN THE PLAYMASTER SOUTHERN CROSS 12" SYSTEM

A 3-Way speaker system using the superb Southern Cross 12" woofer. 5" midrange and tweeter system. Presented in a beautifull walnut veneer cabinet.
These units will match any 8 ohm output and handle a massive 80 watts max peak power.

Guaranteed against operating defects for 2 years.

*WARRANTY DOES NOT APPLY TO CABINET
A-2360 .. .. $199 per pair

SAVE $20

APAN SPECIAL

This semi-automatic APAN BRU-121 comes complete with fully imported base & cover and, of course, the well known JELCO magnetic cartridge.
All this and it's standard — WOW!
Features include a damped cueing device (no more scratched records thru mechanical cueing), full anti skate control plus full trackability weight setting control, 33-1/3 & 45RPM, belt drive, Jelco magnetic cartridge with diamond stylus (replacement stylii available, cat. C-5008).
Still incredible value even with devaluation & inflation!
Cat A-3024 .. .. $145.00

FOR BEGINNERS, FOR DUBBERS, FOR ANYONE.....

CrO_2 SWITCH

WATTMASTER STEREO CASSETTE DECK

only $125

The ideal deck to start off with . . . or to use as a second deck . . . or for anyone with an eye for value: The Wattmaster deck is the one for YOU! Finished in teak colour cabinet, with silver and black trim on the top face. Size (mm) 314 (W) x 111 (H) x 231 (D)
Features: • Autostop • Fast forward • Rewind • Stop/Eject • Noise reduction switch • Tape Counter • Twin VU meters • Plus many more features . . . Incredible value for the price.

Cat. A-3682 .. .. $125

DICK'S VALUE PLUS SPECIAL

auto.....

BRITISH MADE GARRARD TURNTABLE

WAS $32.00 NOW!! $22.50

Upgrade your old radiogram to stereo Hi-Fi!
The Model CCIO turntable offers you that replacement for old radiograms or as part of a new system. The mini design enables it to fit boxes where larger units will just not go.
The balanced arm has a crystal stereo cartridge already fitted — turntable platter has rubber mat to hold your record firmly in place and not only can you play single records with a short spindle but also by replacing the short spindle with the autoplay spindle you can stack those records for your parties.
Supplied accessories include short spindle, autoplay spindle, all mounting springs, etc. plus cut-out plan.
Cat. A-3068.. .. .. $22.50

DON'T DELAY — GET YOURS TODAY
UNCUT WOODEN BASE TO SUIT
Cat. A-3430.. .. .. $11.50
ACRYLIC COVER TO SUIT
Cat. A-3420.. .. .. $11.50

HITACHI D-450

BEST SELLER 1976!!! NOW FOR 1977!!!
THE HITACHI D-450 STEREO DOLBY FRONT LOADER CASSETTE DECK! One of the most superb cassettes that we have had the privilege to sell . . .
It has features you would normally expect to find only on decks costings hundreds more!

* TWO LARGE ILLUMINATED VU METERS
* DOLBY NOISE REDUCTION
* INPUT SELECT — MICROPHONE OR LINE
* BIAS & EQUALIZATION CONTROL (ie CrO_2)
* SEPARATE RECORD LEVELS FOR EACH CHANNEL
* OUTPUT LEVEL CONTROL
* 30Hz TO 14.5kHz RESPONSE (CrO_2)
* S/N RATIO 60dB (Dolby off)
* DC SERVO MOTOR
* PLUS MANY, MANY MORE FEATURES

Size 144 (H) x 414 (W) x 258 (D) mm. Weight 5.6kg.
Cat. A-3653 .. .. Incredible value at only $285.95

OUR BEST SELLING TUNER

NEW MODEL

ECHOSOUND AM/FM STEREO TUNER

ECHOSOUND AM/FM STEREO TUNER

In Electronics Australia February 1975 Neville Williams said: "Very good value indeed" and now over two years later we can say that this superb tuner is even better value than a year ago.

$79.00

SPECIFICATIONS:
Has seperate AM & FM front ends, 10 transistors and 14 diodes
Covers the Australian standard FM band 88 - 108 Mhz. Has a stereo seperation of 35dB and a 600mV output.
The stereo multiplex adaptor is built in and the stereo tuning is indicated by a light.
Works on 240V AC. and comes complete in its own Walnut case.
Guaranteed by Dick Smith for 12 months on parts and labour.
In our 1976 catalogue we stated that over 2,000 had been sold in the previous 12 months, well one year later they are still one of our best buys---------- NOW WITH NEW LOOK CABINET.

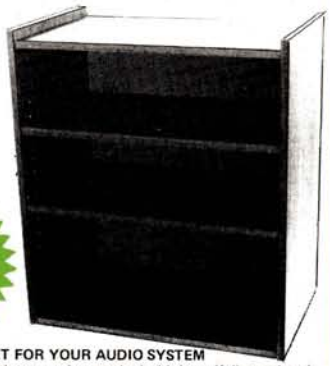
Cat. A-1410 .. .. $79.00

DICK'S VALUE PLUS SPECIAL

SPECIAL NOTE:
This tuner conforms to Australian de-emphasis specifications;

SUPERB HI-FI CABINET

PROTECT YOUR HI-FI WITH THIS BEAUTIFUL CABINET



$45.00

DE-LUXE CABINET FOR YOUR AUDIO SYSTEM
Made for Dick Smith to exacting standards this beautifully produced audio cabinet comes as a flat pack that you simply put together. The two sides dowel fit to the base and top and a masonite back slides in place. Two internal shelves have six positions each for adjustment — this suits virtually any combination of units. The cabinet is large enough to accommodate a 3-in-1 system on top. The superb walnut finish will match our twin 25 with sleeve and also our new speaker system kits.
Dimensions: (mm) 605 w x 680 h x 380 d (o.d.) Shelf width 570mm.
Cat. A-0100 .. .. $45.00

CASSETTE WITH AM/FM RADIO

$69.00

FEATURE PACKED
This unit has standard AM radio plus Australian standard 88-108 Mhz FM band. The cassette has two track mono with full volume and tone control. There is a large 100 mm dynamic speaker built in, with condensor microphone for easy recording. Record straight from the radio onto tape and no worries when the tape ends, as it has auto stop. Recording has auto level control. Works on 4 batts. or 240 volts Ac

OTHER FEATURES INCLUDE — EXT. SPEAKER JACK
SEPERATE MICROPHONE JACK— AUX. INPUT JACK—
MONITOR SWITCH + A HOST OF OTHER GREAT FEATURES.

Dimensions: 288 x 192 x 77 mm

Cat. A-4016 .. .. $69.00

SUPER VALUE FROM DICK SMITH

NEW MODEL

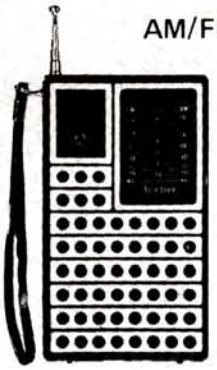
$39.95

This beautiful unit features automatic shut-off at end of play. Built in condensor microphone plus inputs for remote microphone and private earpiece. It also has a built in auto gain control so all of your recordings are perfectly made. Slider volume control plus DIN socket on the side of the machine for direct coupling to your audio system. Recorder works on four batteries or AC mains.
Weighs just 1.75 Kg and its size is 260 x 140 x 65 mm
Supplied accs: Batteries, earphone, insrructions.

Cat. A-4092 .. .. $39.95

THE BEST SELLER IN 1976 AND NOW FOR 1977

AM/FM POCKET PORTABLE



SPECIAL

$12.50

Good looking and great sounding personal portable brings you your favourite AM and FM programs.
Easy to read tuning dial, large dynamic speaker, built in ferrite aerial for AM and a telescopic aerill for FM.
Complete with battery and earphone.

Cat. A-4364 .. .. $12.50

CLOCK RADIO—AM/FM

SCOOP PURCHASE

$47.50

AM/FM CLOCK RADIO WITH ELECTRONIC READ-OUT SUPERB VALUE!
Don't get up late — get yourself a Dick Smith clock radio!
De-luxe features include AM/FM radio with either buzzer alarm or automatic radio switch-on. Full control of clock allows you to alter the time by pushing a button, sleep timer, snooze alarm (repeats the alarm approx every 6 minutes — great for heavy sleepers!) Alarm set control plus a host of other features.
A very special Dick Smith buy . . .
Cat. A-4444 .. .. $47.50

VALUE SPECIAL

AM/FM BATT./AC PORTABLE RADIO

$22.50

FOR YOUR HOME — PICNIC — BBQ — VIRTUALLY ANYWHERE! DICK SMITH OFFERS THIS SUPERB AM/FM PORTABLE RADIO:
Beautifully designed unit has switches for power, AM/FM, AC/DC plus volume and tone controls. The rotary tuning dial shows at a glance where you are with big, bold numerals. Built in swivel telescopic antenna for FM, plus private earphone listening socket. Large 76mm speaker gives dynamic sound quality. Comes complete with sturdy carry handle. Semiconductor complement: 9 transistors and 7 diodes. Dimensions: (mm) 190 H x 95 W x 262 (L).
Cat. A-4320 .. .. $22.50

THE FOUR KINGS ESPECIALLY IMPORTED BY DICK SMITH

DICK'S VALUE PLUS SPECIAL

KING OF CLUBS

Model KH508 with switch to switch from mono to stereo plus full volume control on each earpiece. Soft leather look earpads and fully padded headband. 8 Ohms and full audio response with 3 metres coiled lead and standard stereo plug

Cat. C-4112 .. .. $14.00

KING OF HEARTS

Model KH500 offers soft vinyl ear pads and adjustable headband for hours of easy listening.
8 Ohms impedance with a frequency range of 20 – 20,000 Hz supplied with 2 meter lead and stereo phone plug.

Cat. C-4110 .. .. $8.50

KING OF DIAMONDS

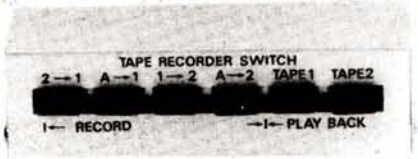
Model KH709 gets it altogether with separate volume and tone controls of the latest slider type. Mono/stereo switch and full audio frequency range at 8 Ohms. 3 meters coiled lead and standard stereo plug.

Cat. C-4114 .. .. $19.00

KING OF SPADES

Model DRC196C the top of our range. A superthin headphone of new design using constant velocity drivers for a phenomenal performance. Frequency range of 18-22,000 Hz and will match any impedance of 4-15 Ohms maximum input 0.1 watts. No headstrain with the DRC196C they only weigh 150 grams (without cord).

Cat. C-4122 .. .. Cord supplied $29.50



DICK SMITH EXCLUSIVE $14.50

TAPE RECORDER SWITCH

TAPE RECORDER SWITCH – A DIRECT IMPORT
THE HEART OF YOUR OWN RECORDING AND DUBBING FACILITY
USE TWO DECKS (REEL OR CASSETTE) WITH ONE STEREO AMP
No need for messy patch cords and yet you can perform all of these functions:

Press Button 2 → 1	Dub from tape 2 on to tape 1
Press Button A → 1	Record on tape 1 via amplifier
Press Button 1 → 2	Dub from tape 1 on to tape 2
Press Button A → 2	Record on tape 2 via amplifier
Press Button Tape 1 → Playback	Play tape 1 through amplifier
Press Button Tape 2 → Playback	Play tape 2 through amplifier

Cat. C-7220 .. .. $14.50

HEADPHONE ADAPTER

ONLY 90¢

6.5mm. SOCKET TO 3.5mm. PLUG

Allows Stereo Headphones to be used with virtually any radio or tape player.

Cat. P-6570 .. .. 90c.

CASSETTE CLEANER DEMAGNETIZER

SAVE YOUR HEAD FROM DIRTY MAGNETISM
HERE'S WHY –
As you play your cassette tapes or make recordings a film of magnetic dust deposits itself on the head. At the same time the head must be clean and completely de-magnetized. This handy little CDI will do the job in 10 seconds – just insert it into your machine and the cleaning tape cleans the heads at the same time as a rotating ferrite magnetic removes the magnetism.
RESULT – CRYSTAL , CLEAN, SOUNDS.

Cat. C-3832 .. .. $4.90

INTERCOM/TELEPHONE PICK UP

This accessory can easily be fitted to your intercom etc. by suction pad.
Record directly onto tape or feed into your amplifier.
Comes complete with 3.5 mm plug and 1 metre lead.

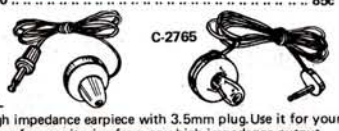
Cat. C-7300 .. .. $1.20

C-7300

EARPIECES

MAGNETIC
Magnetic 8ohm earpiece with 3.5mm plug. Used extensively in transistor radios and mono cassette units. Lightweight for easy listening and miniature connecting cord for non-tangle use.

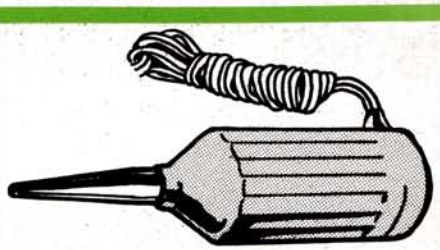
Cat. C-2760 .. .. 85c



C-2760 C-2765

CRYSTAL
Crystal high impedance earpiece with 3.5mm plug. Use it for your crystal set or for monitoring from any high impedance output Lightweight and easy to use.

Cat. C-2765 .. .. $1.20



TAPE HEAD DEMAGNETIZER

$5.25

MAGNETIC HEAD DEMAGNETIZER
Ideal for use with all tape recorders – cassette or reel to reel Removes permanent magnetism (a major cause of noise) in seconds. 240V a.c. operation. Simply hold pole tip close to heads and remove slowly. Full instructions supplied.

Cat. C-7222 .. .. $5.25

HEADPHONE ADAPTOR

$8.75

Having problems with your headphones! If you have a stereo system without a headphone jack then Dick can solve your problems. The Model JB101 is a device that can be interposed between your stereo speakers and the amplifier. (You simply cut the speaker leads and connect to the JB101). They if you wish to use stereo headphones you just plug in (2 sets can be used simultaneously). The speaker system will be automatically disconnected when using the stereo headphones.

Cat. C-3900 .. .. $8.75

TAKE CARE OF YOUR TAPES AND RECORDS

TAPE HEAD CLEANING OUTFIT

$4.50

NEW FOR 1977

Don't use spit and polish on your expensive tape deck and cassette deck heads.
Specially imported tape head cleaning outfit.
Contains two cleaning soulutions, coloured differently for ease of identification. One solution cleans the heads and metal guide posts and the other is for the rubber drive roller. Included also is a packet of cleaning sticks with special extension piece for hard to get at heads.

A must for all serious tape users.

Cat. C-7038 ..... $4.50

STATIC PROBLEMS

STATIC PROBLEM WITH YOUR RECORDS

Let us solve your problem with our large can (340 grams) of anti-static spray. Just spray your record lightly then remove film with special cloth provided.
For crystal clear sound

Cat. C-7081 ..... $2.50

AUDIO ACCESSORIES DESIGNED TO CONNECT AND PROTECT

WHY SPEND $8 OR MORE FOR YOUR RECORD THEN NOT LOOK AFTER IT. CASSETTE HEADS AND RUBBER ROLLERS NEED CLEANING FOR THAT CRYSTAL CLEAR SOUND. EVER WONDERED IF YOUR STYLUS IS TRACKING AT THE CORRECT WEIGHT —— FIND OUT WITH THE METROSOUND STYLUS BALANCE THESE PLUS MANY OTHER ACCESSORIES ARE AVAILABLE ON OTHER PAGES.

$9.75

DICK'S VALUE PLUS SPECIAL

LINEAR TRACKING ARM

A superb new model for cleaning your records. This unit is finished in metal and will enhance the appearance of any turntable. A spare cleaning pad and dust removing brush is included in the box. Height adjustment to your turntable platter can be accomodated by either of two height adjustment rods. Fix to your turntable by either a stickypad or four screws all supplied.

Cat. C7065 ..... $9.75.

NEW MODEL

$11.50

METROSOUND STYLUS BALANCE

Why trust to luck with your expensive cartridge. This professional balance will ensure accurate determination of playing weight. Low fricition knife edge bearings allow precise balancing between 0-3 grams at .1 gram divisions. A bubble level gives accurate visual indication of when arm is in balance.

A must for every serious music lover.

Cat. C-7030 ..... $11.50

BASF MODULOCK

★75¢

CASSETTE STORAGE SYSTEM

Moulded in very tough plastic. These units hold for cassettes in their snap packs by a unique system of interlocking sides you can combine as many of these units as you wish in any design. Can be screwed to the wall, stand upright on a shelf or laid flat in a drawer.
State colour required, balck or brown.

Thats 24c cheaper than last year!

Cat. C-3802 ..... 75c

HAVE CASSETTE

$3.20

.....WILL TRAVEL

Deluxe shiny vinyl in brilliant colours with carry handle and catch fastener to protect your cassettes in the car, at home or where taking them to parties.
Holds 16 cassettes.

Cat. C-3810 ..... $3.20

HIGH QUALITY

$10

THE ORIGINAL DUST BUG

Primarily designed to deal with dust falling onto the record whilst playing. It is not intended to clean dirty records nor to disperse accumulated static. Used as directed with the plush pad in a 'Humid' state it will minimise static build up during playing and clear atmospheric dust pre pick-up. Supplied with base for attachment and non toxic antistatic fluid.

Cat. C-7060 ..... $10.00

REEL TO REEL

SPECIAL VALUE

REEL TO REEL USERS

Empty spool in tough plastic at low, low prices.

3" Empty spool	Cat. C-3480	$1.20
5" Empty spool	Cat. C-3482	$1.30
7" Empty spool	Cat. C-3484	$1.45

W-1010

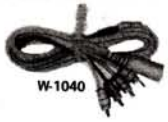
W-1150

W-1050

W-1120

W-1110

W-1220


W-1040

W-1080

W-1020

W-1030

W-1060

AUDIO ADAPTER CABLES

THESE ARE TOP QUALITY SHIELDED CONNECTING LEADS OF STANDARD LENGTH WITH TERMINATED CONNECTORS

			CAT.	
5 PIN DIN	Plug to	5 PIN DIN Plug	W - 1010	$2.75
5 PIN DIN	Plug to	2 x 3.5mm Plugs	W - 1050	$2.50
5 PIN DIN	Plug to	4 x 3.5mm Plugs	W - 1020	$3.00
5 PIN DIN	Plug to	4 x 6.5mm Plugs	W - 1030	$4.99
5 PIN DIN	Plug to	1 x 6.5mm stereo line socket	W - 1220	$3.30
5 PIN DIN	Plug to	4 x R.C.A. Plugs	W - 1040	$3.50
4 x R.C.A.	Plugs to	4 x R.C.A. Plugs	W - 1060	$4.20
2 x R.C.A.	Plugs to	2 x R.C.A. Plugs	W - 1180	$2.75
R.C.A.	Plug to	R.C.A. Plug	W - 1070	85c
R.C.A.	Plug to	3.5mm Plug	W - 1080	85c
6.5mm Stereo plug to 2 x 6.5mm line sockets			W - 1130	$3.50
2 x R.C.A.	Plugs to	3.5mm Plug	W - 1250	$2.30
2 x R.C.A.	Sockets to	1 x 3.5mm Socket	W - 1290	$2.00
R.C.A.	Plug to	R.C.A. Socket	W - 1280	$1.80
3.5mm	Plug to	3.5mm Plug	W - 1090	85c
3.5mm	Plug to	3.5mm Socket	W - 1150	$1.25
2 x 3.5mm	Plugs to	2 x 3.5mm Plugs	W - 1190	$2.10
2 x 3.5mm	Plugs to	3.5mm Plug	W - 1230	$2.00
2 x 3.5mm	Plugs to	6.5mm Line Socket	W - 1210	$3.25
3.5mm	Plug to	6.5mm Line Socket	W - 1260	$2.00
3.5mm	Plug to	4 x Aligator Clips	W - 1170	$1.54
4M	Coiled lead 6.5mm Plug to 6.5mm Plug		W - 1110	$3.00
4M	Coiled lead 6.5mm Plug to 6.5mm line stereo socket		W - 1120	$3.50

P-6510

P-6590

P-6530

P-6570

FANTASTIC VALUE

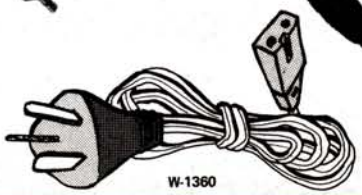
P-6520

P-6550

P-6580

P-6560

P-6540


W-1360

AUDIO PLUG ADAPTERS

A FAST, ECONOMICAL WAY OF SOLVING THAT PLUG AND LEAD CONVERSION PROBLEM

		CAT.	
6.5mm	Socket to 3.5mm Plug	P-6510	80c
6.5mm stereo	Socket to 3.5mm Plug	P-6570	90c
6.5mm	Socket to R.C.A. Plug	P-6550	80c
3.5mm	Socket to R.C.A. Plug	P-6540	80c
3.5mm	Socket to 6.5mm Plug	P-6520	80c
R.C.A.	Socket to 6.5mm Plug	P-6530	80c
R.C.A.	Socket to 3.5mm Plug	P-6560	80c
6.5mm	Socket to single cont. Mic. Connector	P-6590	$1.20
6.5mm stereo	Socket to 6.5mm Plug	P-6580	$1.00

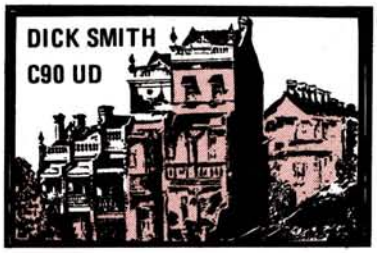
P-6570 and P-6580 are ideal for operating stereo headphones from mono cassette units and communication receivers.

MAINS ADAPTER LEADS

STD. 3 PIN MAINS PLUG TO 2 PIN JAP. EQUIPMENT INSULATED CONNECTOR Cat. W-1360 $3.25

FIT MOST CASSETTES, RADIOS ETC.

WHY BUY HITACHI, TDK, MAXELL ETC WHEN DICK SMITH —— PROUDLY ANNOUNCES THE BIRTH OF A CASSETTE.



DICK'S VALUE PLUS SPECIAL

NEW LN & UD QUALITY TESTED

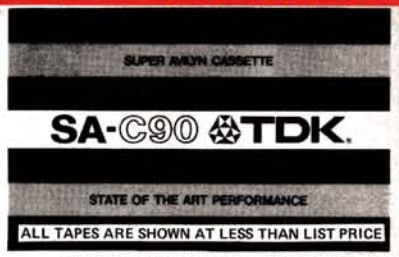
A new revolution in cassettes is about to happen - We know of cassettes that shatter glass and those that set standards— Ours will give you top quality sound and thats what it's really all about.

Superbly packaged to catch your eye the cassette case is in high impact plastic and has specially developed flange rollers and hubs — For smooth tape transport. A phosphor bronze spring on the pressure pad ensures constant tape contact with the recorder/playback heads. Everything has been done to protect the actual tape.

Tested by an independent Sound Laboratory — in fact we believe that they perform better than both Hitachi UD and TDK SD tapes — we suggest you try them and judge for yourself !

Now you can purchase low noise cassettes for all your musical requirements and ultra dynamic for top quality recording — at a price anyone can afford.

		1-10	11 or more
DICK SMITH C60	Cat. C-3346	$1.20	80c
DICK SMITH C90	Cat. C-3348	$1.35	$1.00
DICK SMITH C60 LN	Cat. C-3350	$2.00	$1.50
DICK SMITH C90 LN	Cat. C-3352	$2.50	$1.99
DICK SMITH C90 UD	Cat. C-3354	$3.00	$2.50



ALL TAPES ARE SHOWN AT LESS THAN LIST PRICE

WE ALSO STOCK THE FOLLOWING CASSETTES

		1 — 10	11 or more
HITACHI			
C60LN	Cat. C-3060	$2.25	$1.90
C90LN	Cat. C-3065	$2.75	$2.25
C90UD	Cat. C-3075	$3.50	$2.99
BASF			
C60SMLH	Cat. C-3010	$2.30	$1.95
C90SMLH	Cat. C-3015	$2.85	$2.35
$C90CrO_2$	Cat. C-3310	$3.90	$3.40
TDK			
C90SA	Cat. C-3090	$4.99	$4.50

TOP QUALITY REEL TO REEL TAPE

BASF 7"1800' Low Noise	Cat. C-3400	$12.50
BASF 7"2400' Low Noise	Cat. C-3405	$14.50
BASF 7"3600' Low Noise	Cat. C-3410	$22.50

SHURE STEREO CARTRIDGES

SHURE M91ED

SAVE over $10-00

$35.95

THE MOST POPULAR CARTRIDGE IS THE NOW FAMOUS SHURE M91ED

This high trackabilty cartridge has a ultra light weight elliptical diamond stylus that ensures perfect reproduction from 20 - 20,000 Hz at between ¾ and 1½ grams tracking.

Cat. C-5515 .. .. **$35.95**

THE M70 SERIES REPRESENTS VALUE FOR MONEY

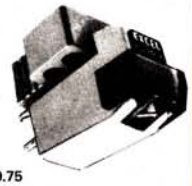
NEW

M70EJ ELLIPTICAL STYLUS
(.0004 x .0007 m)
With a tracking weight of 1½ to 3 grams frequency response 20 - 20,000 Hz a really superb cartridge at superb value for money.
Cat. C-5512 .. .. **$17.85**

M70B
For the person who prefers the value of a special stylus with the same superb specifications as the M70EJ then the SHURE M70B happens to be just the cartridge for you.
Cat. C-5511 .. .. **$12.80**

GOLDRING ES70SH MAGNETIC CARTRIDGE

SAVE over $3



HOW DOES HE DO IT AT ONLY $9.75
Dick introduced this superb magnetic cartridge over 2 years ago and still it sells and sells. Superb specifications make this a top seller — frequency response from 15 - 25,000 Hz. with an output of 5mV @ 5cm/sec. tracking from 1 to 2.5 grams fitted with a conical diamond stylus.

Cat. C-5660 .. .. **$9.75**

NATIONAL CARTRIDGES

Enter the world of high performance National Panasonic Magnetic Cartridges. Eash type of cartridge comes packed in its own distinctive box completely wired into a light weight headshell for direct fitting to most of todays quality turntables.

FANTASTIC VALUE

THE STANDARD TYPE 205C IIS
Output voltage of 3.5mV and elliptical diamond make this deluxe cartridge one of the most sought after tracks at 1.25 grams.
Cat.C-5537 .. .. **$69.99**

THE LOW IMPEDANCE TYPE 205C IIL
Without going into great technical details the purpose of this cartridge is to give good results in any turntable with any amplifier (magnetic input) regardless of capacitive or impedance characteristics. Output voltage of 2mV and of course elliptical diamond.
Cat. C-5539 .. .. **$69.99**

THE HIGH OUTPUT TYPE 205C IIH
The 7mV output of this cartridge gives 6 dB more output over the 'S' model which means 4 times more volume for the same amplifier setting .
Cat. C-5541 .. .. **$69.99**

ALL LISTED AT $75.50

CARTRIDGES CRYSTAL/CERAMIC

JAP
2 VOLT
CRYSTAL Cat. C-5632 $7.00

GXS17
500mV
CERAMIC Cat.C-5624 $10.90

GXS 14
900mV
CRYSTAL Cat.C-5614 $8.00

GCS4
280mV
CERAMIC Cat.C-5634 $8.20

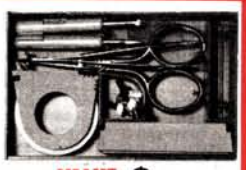
GCS 3
250mV
CERAMIC Cat.C-5638 $8.00

GXS 15
2 VOLT
CRYSTAL Cat.C-5618 $8.00

GXS 13
550mV
CRYSTAL Cat.C5610 $9.35

GXS 16
140mV
CERAMIC Cat.C-5600 $12.00

THE COMPLETE EDITING KIT



FOR THE CASSETTE BUFFS

VALUE $15.35

THE BASF CASSETTE HOBBY BOX
Contains splicing template, pair of anti magnetic scissors, pair of tweezers, Philips screwdriver, flat-blade screwdriver, splicing tape and dispenser (5meters), 10 meters of leader tape, clips, pressure pads and screws.
Cat. C-3500 .. .. **$15.35**

MAGNETIC STYLI REPLACEMENTS FROM GOLDRING

CAT No.	MANUFACTURER	STYLUS TYPE	PRICE
C-5004	Jelco white		$9.80
C-5005	Jelco brown		$8.50
C-5006	Jelco blue		$9.00
C-5008	Jelco red		$12.50
C-5008	CEC	MC205	$12.50
C-5013	Audio Technica	AT6	$8.00
C-5013	Sony	ND 11 3P	$8.00
C-5013	CEC	MC6	$8.00
C-5013	Hitachi	DS-ST3	$8.00
C-5013	JVC	DT16/16B	$8.00
C-5013	Kenwood	AT6	$8.00
C-5013	Onkyo	DN55T/13ST	$8.00
C-5013	Pioneer	PN6	$8.00
C-5013	Sansui	ST-6D	$8.00
C-5013	Sanyo	ST-12D	$8.00
C-5013	Sharp	NO5D/NO6D	$8.00
C-5013	Toshiba	N4CS	$8.00
C-5013	Yamaha	33-05	$8.00
C-5014	ADC	K8	$14.95
C-5015	JVC	DT-33H	$14.95
C-5016	Akai	AP-002	$10.50
C-5016	Audio technica	VM8-7D	$10.50
C-5016	HMV	HV-14D	$10.50
C-5016	Hitachi	SDT2690	$10.50
C-5016	JVC	DT31	$10.50
C-5016	Kenwood	N32/33	$10.50
C-5016	National	EPS18STSD	$10.50
C-5016	National	EPS31STSD	$10.50
C-5016	Sanyo	ST35D	$10.50
C-5016	Sharp	ND20	$10;50
C-5016	Hitachi	PS-38	$10.50
C-5030	Shure	N44/7	$13.99
C-5036	Shure	N91ED	$28.75
C-5040	Shure	N95ED	$28.75
C-5044	Shure	VN35E	$28.75
C-5102	Shure	N75/E	$15.99
C-5106	Shure	N55/E	$18.99
C-5116	Pioneer	PN11	$10.50
C-5117	Pioneer	PN135	$14.95
C-5117	Pioneer	PN12	$14.95
C-5117	Pioneer	PN110	$14.95

REPLACEMENT STYLI FOR CERAMIC AND CRYSTAL

CARTRIDGES USING GOLDRING REPLACEMENT

NUMBERS

DOUBLE SIDED STYLI LP/78

C-5147	Sapphire 82	$2.95
C-5148	Diamond 82	$7.00
C-5149	Sapphire 88	$2.95
C-5150	Diamond 88	$7.00
C-5151	Sapphire 96	$2.95
C-5152	Diamond 96	$7.00
C-5155	Sapphire 332	$2.95
C-5156	Diamond 332	$7.00
C-5157	Sapphire 342	$2.95
C-5158	Diamond 342	$7.00
C-5161	Sapphire 442	$2.95
C-5162	Diamond 442	$7.00
C-5163	Sapphire 444	$2.95
C-5164	Diamond 444	$7.00
C-5165	Sapphire 445	$2.95
C-5166	Diamond 445	$7.00
C-5169	Sapphire 475	$2.95
C-5170	Diamond 475	$7.00

SINGLE SIDED REPLACEMENT STYLI ALL LP

C-5143	Diamond 35	$5.00
C-5144	Sapphire 35	$1.50
C-5145	Diamond 44	$5.00
C-5146	Sapphire 44	$1.50
C-5153	Diamond 325	$5.00
C-5154	Sapphire 325	$1.50
C-5159	Diamond 404	$7.00
C-5160	Sapphire 404	$2.95
C-5167	Sapphire 464	$2.95
C-5168	Diamond 464	$7.00

OUR BEST SELLERS

"SOUND SENSE BUYS"

CAR STEREO SPEAKERS

A beautiful pair of 130 mm Hi-compliance speakers with black padded cover grills. Handles 10 watts maximum/5 watt nominal power. 4 ohms impedance and 140 gm magnet makes a great sound system for your car.

Cat. A-6985 .. .. PER PAIR $16.00

CAR STEREO SPEAKER

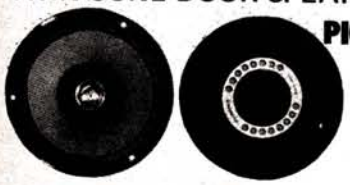
Convertible box type that can also be mounted flush. Has 4 ohm nominal impedance with 8 watts maximun power output. 130 mm Hi-compliance speaker with 90 gm magnet.

Cat. A-6980 .. .. PER PAIR $16.00

$16

TWIN CONE DOOR SPEAKERS

PIONEER



TWIN CONE DOOR MOUNTING SPEAKERS TS - 160
FULL AUDIO RANGE - 40 - 20,000 Hz IN YOUR CAR !
IMPRESS YOUR FRIENDS AS WELL AS YOURSELF.

These are true Hi-Fidelity speakers able to handle up to 20 watts (8 watts normal) and that's a lot of sound even for the very big cars. Ample for the back of a wagon too.
These are Pioneer's best sellers and one of the few car speaker systems that can handle the Pioneer AD - 304 Power Amp.
Size 165mm.

Cat. A-7092 .. .. .. UNDER LIST PRICE .. .. $39.99 Per Pair

STANDARD SPEAKER GRILLS

FANTASTIC VALUE

WANT A GRILL!
SPEAKER GRILLS OF QUALITY FINISH FOR YOUR CAR

THREE SIZES AVAILABLE.

DE-LUXE BLACK FINISH WHICH ADDS THE FINAL TOUCH TO YOUR FLUSH MOUNT SPEAKERS.
FIVE INCH ROUND HAS METAL RIM FOR EASE OF FIT PLUS NON-SHRINK IN THE SUN

230 x 150 mm (6" x 9")	Cat. A-7815.. .. .. $2.00
180 x 130 mm (5" x 7")	Cat. A-7816.. .. .. $2.00
130 mm (5") round	Cat. A-7818.. .. .. $2.50

$32.50 POWER!!

20 WATTS PEAK PER CHANNEL

WAS $59

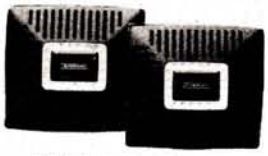
PUT POWER INTO YOUR CAR STEREO.
THE MODEL PA99 POWER STEREO AMP.
This neat little box will fit any in-car stereo unit to give a big healthy 10 watts into each channel. It has a universal impedance and works off your car battery (12V negative earth). Fit it anywhere you like - under dash - in your boot - glove box, literally anywhere you have room.
Now at his amazingly low price!

Cat. A-6612 .. .. $32.50

HIGH QUALITY

FLUSH MOUNT SPEAKERS TS-100

$29.99



PIONEER

Hideaway door type speakers — ideal for both rear and front kick panels.
Frequency range 50 - 14,000 Hz. Input power normal 4 W, Maximum 8 W. Nominal 4 ohms (2 - 8 ohms allowable).
Size: 100mm.

Cat. A-7088 .. .. UNDER LIST PRICE .. .. .. $29.99 Per Pair

CLARION

$33

TWIN CONE AIR SUSPENSION CAR SPEAKERS
A TRUE HI-FIDELITY SPEAKER FOR YOUR CAR
MODEL CTD 2005 8 WATTS — 4 OHM IMPEDANCE — 90 - 14,000 hz.
Top quality 130 mm (5") round dual cone speakers giving improved performance over single cones. Get even greater listening pleasure from your in-car sound system. Supplied in matching pairs.
* SPECIAL FEATURE — EACH UNIT HAS A MASSIVE 16.5 oz MAGNET

Cat. A-7040.. .. .. $33.00 per pair

AERIAL EXTENSION LEADS

4 METRE
Fully compensated (low signal loss) 4 meter lead for when you want to put your car aerial somewhere else — on the top cowl or rear fender where it really looks snazzy.
NOTE: Having the aerial on the rear fender is a great aid to parking.

Cat. A-7452.. .. .. $6.00

1 METRE
Similar to A-7452 but only one meter long and of course much cheaper.

Cat. A-7450.. .. .. $3.00

OTHER AERIALS ALSO AVAILABLE

LV324	VW LOCKDOWN	Cat. A-7310	$7.95
NCP314	MAZDA PILLAR	Cat. A-7325	$7.95
NCP180B	DATSUN PILLAR	Cat. A-7330	$7.95
SPRING BASE TOP COWL		Cat. A-7335	$9.95

AERIALS

THE ELECTRIC AERIAL

Protect your aerial from inside the car. Dash mounted switch lets you flip your aerial up or down at any time. Works on 12V negative or positive ground. Aerial extends 1 metre in 5 sections and only requires 320 mm clearance below fender.
Slipping clutch ensures no burn outs.

Cat. A-7360.. .. .. $23.00

UNIVERSAL TOP COWL

Can be mounted virtually anywhere — (25.4 mm hole for mounting) Has 3 sections and 1 metre cable with plug.

Cat. A-7340 .. .. $5.75

LOCK DOWN AERIAL

The still very popular vandal proof aerial. 5 sections give super-extension and all you need is 330 mm underhang.

Cat. A-7300.. .. .. $7.95

THIS IS AMAZING!

A SUPER DE-LUXE SPRING MOUNT LOCKDOWN

All the features of a standard lockdown plus a spring base ensures that in the event of your car aerial contacting a tree branch, etc., it will only spring and not break.

Cat. A-7338.. .. .. $10.50

A DE-LUXE ROOF AERIAL NR208

Be in the fashion with this beaut roof aerial.
Has adjustable length as well as spring base. The angle can be adjusted to suite your degree of aloofness.

Cat. A-7306.. .. .. $9.95

UNIVERSAL CASSETTE HARNESS

Fits All Stereo Players With Pin Type Plugs

MISSING A CASSETTE STEREO CONNECTION HARNESS?

DICK HAS THE ANSWER WITH THIS NEW UNIVERSAL CAR STEREO POWER CONNECTOR.
Simply a connector with all the hole configurations, all you do is place the pins in the right holes to suit your car stereo.
COLOUR CODED LEADS FOR SIMPLICITY.

Cat. A-7460 .. .. $1.75

CAR FADERS

Mono fader control
Fade between front and rear speakers on your car radio from full volume front or rear to both speakers on at the same time.

Cat. A-7830 .. .. $3.20

Stereo fader control
If you have four speakers in your car then you need our stereo fader. Control your sound so that it comes from either the front pair or the rear pair or all four speakers at once.

Cat. A-7832 .. .. $4.80

Both units come complete with all leads and instructions for installation.

 LOOK AT THE AMAZING NEW SPEAKER KITS ON PAGES 18 & 19

AWA CLARION

AUTO EJECT AM/FM STEREO CASSETTE

MODEL PU-673

* Phase Lock Loop (PLL) IC used in the FM – MPX section for superb stereo reproduction, plus advanced durability, stability and reliability.
* High selectivity is achieved by using ceramic filters in both AM and FM sections.
* Fast forward button for rapidly winding tape.
* Cassette is automatically ejected at the end of fast forward and there is no need to depress the eject knob.
* AFC (Automatic Frequency Control) – FM – suppresses drifts to a minimum, and AGC (Automatic Gain Control) – AM – maintains high sensitivity.

WEIGHT: 1.5 Kg
DIMENSIONS: 177(w) x 44(h) x 150(d) mm

Cat. A-6570 .. .. UNIT ONLY. **$199**

ALSO

AUTO EJECT AM STEREO CASSETTE

MODEL PU-674

* Auto eject mechanism automatically ejects cassette at end of tape
* Fast forward button for quickly locating desired programs
* Tape running starts immediately as cassette is inserted. Also by inserting while the radio is playing , the set automatically switches to tape play.
* AGC (Automatic Gain Control) maintains high sensitivity and accurate tuning performance.

WEIGHT: 1.6 Kg
DIMENSIONS: 177(w) x 44(h) x 150(J) mmm

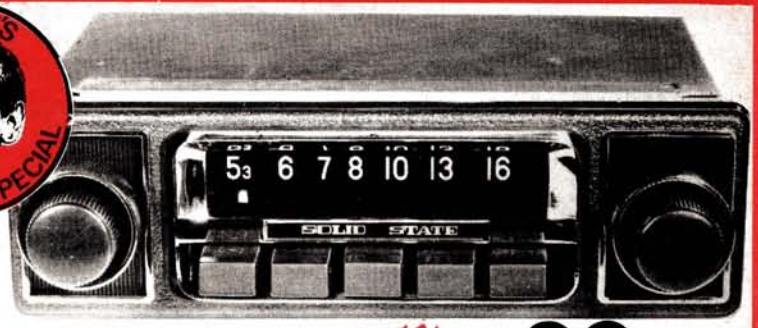
Cat. A-6571 .. .. UNIT ONLY **$168**

ALSO AVAILABLE IN THE CLARION RANGE

Auto reverse cassette player with fast forward and rewind
Model PU 828
Cat. A-6551 .. .. UNIT ONLY $129.00
Auto eject cassette player with fast forward and rewind
Model PU 829
Cat. A-6552 .. .. UNIT ONLY $119.00

Auto reverse cassette player with AM/FM-MPX tuner
Model PU 663
Cat. A-6556 .. .. UNIT ONLY $220.00
Auto reverse cassette player with AM tuner and fast forward and rewind
Model PU 664
Cat. A-6557 .. .. UNIT ONLY $181.00

ALL CLARION UNIT'S AT LEAST BELOW LIST 20%



AM CAR RADIO

INCLUDES 5" SPEAKER

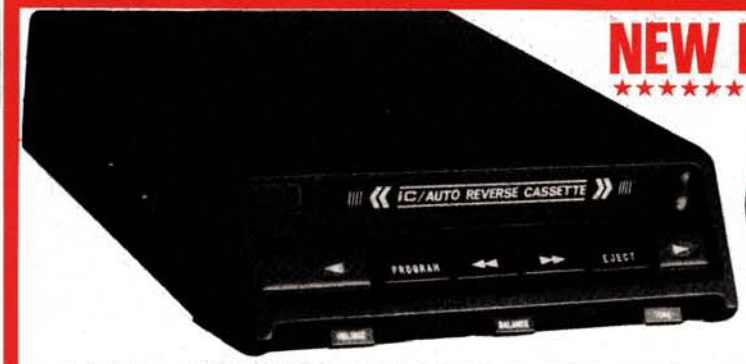
SAVE $20 ON 1976 PRICE

Ideal long range radio at an economical price.

This unit works on 12 volt negative earth and has 8 transistors for powerful reception. Five push buttons lets you preset 5 of your favourite stations and you also have manual tuning for all other stations. Five watts of solid power into a 5" round 4 ohm speaker for a full bodied sound.
Let Dick Smith provide your car sound.
Cat. A-5980 (Aerial extra).. .. .. Unit and Speaker $59.00

VALUE $59

NEW IMPORT ★★★★★★★★★★★★★



A MINI AUTOMATIC REVERSE CASSETTE TAPE PLAYER

ONLY $130

SPECS: Operates on 12V DC negative ground only.
Tape automatically reverses at end of play.
In-dash or under dash mounting due to mini size.
Fast forward and rewind control.

- 6 Watts (max) output per channel.
- 4 ohms impedance
- Max. current (when auto reversing) – 1.5 amps.
- Slider controls for volume, tone, balance.
- 4 IC's
- Size: 140 (w) x 44 (h) x 174 (d) mm
- Weight: 1.2 kg.

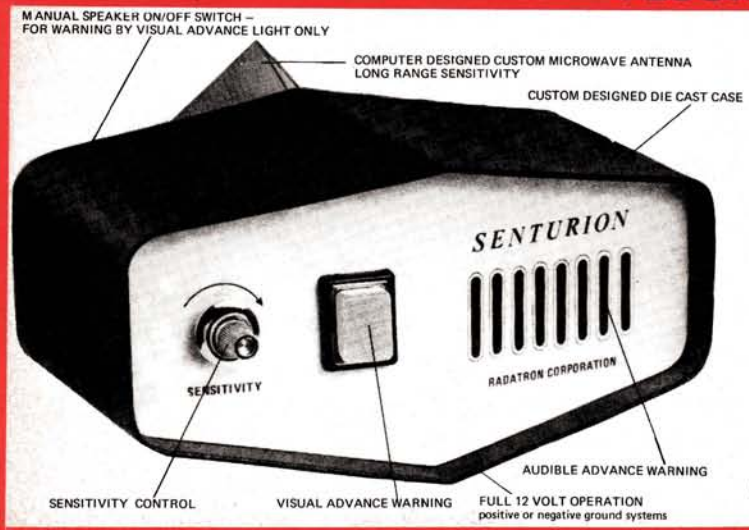
UNIT PRICE ONLY
Cat. A-6486.. .. .. $130.00

STEREO CASSETTE/AM/FM RADIO

SAVE!! $20 ON 1976 PRICE

$139

This superb unit has 12 volt negative earth operation and is small enough for in dash installation adjustable shafts enable installations in different cars. Power output is 5 watts per channel into 4 ohms speakers. The FM radio section is fully multiplexed for FM stereo reception. There is also a fast forward and eject button. You would pay more for this quality elsewhere. Aerial and speakers are an extra.
Cat. A-6480.. .. .. Unit only $139.00



radar detector

Senturion

THIS IS THE ONE PROFESSIONAL DRIVERS CHOOSE . . .

Why spend dollars more and do no better?

This is probably the most sensitive and sophisticated radar detector available in the world today. A revolutionary circuit, the product of over 25 years experience in the field of microwaves by the manufacturers, Radatron Corporation, of New York State, USA. This is the radar detector used by professional drivers – they know the added range and reliability the Senturion Radar Detector offers. While no exact figure can be given for the range of this unit, the manufacturer states that, in normal circumstances, it will detect radar beams at around twice the distance the radar beam can give a reliable (and legal) reading of your speed. In many instances, range will be further than this.
Two mounts are supplied; a sun visor clip and a stick-on dash or windscreen mount. It plugs into the cigar lighter (or can be installed into the wiring loom) and operates through the windscreen glass.
Two alarms are given on detection: an audible and a visual (light), ideal for night driving.
Cat. A-8502 .. .. $115.00

TRANSISTORISED FLUORO LANTERN

$14.50

A handy portable lamp, for both indoor & outdoor use. Strong plastic case. Operates on only 6 x D type torch batteries. Also equipped with an adaptor for external 9-12V DC power. Uses a standard replaceable tube. This bright powerful light is ideal for cars, caravans, campers, fishermen, bushwalkers, servicemen or for blackouts and emergencies. Check out Dick's price it's cheaper than similar units on the market.
Cat. X-1080 .. .. $14.50

12 VOLT FLUORO LIGHT

An attractive fluorescent light 304 x 76mm with plastic diffuser. Can be mounted on walls or any position, can be semi portable Requires 12V @ 8W. C/W 3.65m cord with cigarette lighter plug on end, also has on-off switch. Inbuilt protection to transistor circuitry if wrong polarity is applied. Uses a standard replaceable tube. Almost half the price of similar units on the market. For caravans, boats, campers, etc.
Cat. X-1082 .. .. $11.00

$11

BE YOUR OWN MECHANIC & SAVE

With a Kamoden 77 Solid State Engine Analyzer

DICK'S VALUE PLUS SPECIAL

With one of these little beauties, you could almost start your own auto electric shop. It does everything except tell you the time – and that's not through lack of trying! The instruction booklet that comes with it is beyond reproach: pages and pages of illustrations depicting every aspect of your car's electrical system and how you should attack it ! The analyzer is housed in a tough ABS case with a super large colour coded meter for easy viewing in tough situations. Supplied with the unit are connection leads (including a high current shunt for checking your starter motor, etc). By the way, you can also use it around the house – it's ohms scale (0–100k, 3k centre) and the three handy voltage ranges (3V, 15V & 30V DC) are just what you need for a whole lot of general work around the house. If you get the idea that we're pretty excited about this – you're right! We consider this to be one of the most valuable pieces of test gear anyone could have – particularly the professional! Even for the amateur, it would save its own cost in no time just in saved petrol – and that doesn't count the dollars you would waste having your car tuned by a professional. Real value!
Cat. Q-1510 .. .. $57.50

PROFESSIONAL MODEL

DOES THE FOLLOWING CHECKS:

- BATTERY VOLTAGE
- ALTERNATOR/GENERATOR
- REGULATOR
- DWELL ANGLE
- POINTS RESISTANCE
- CAPACITOR
- ENGINE SPEED
- SPARK PLUGS
- ALL ELECTRICAL SYSTEM

FANTASTIC VALUE

$57·50

Husky 4A Charger Now with O/P Meter

NEW MODEL

Batteries these days are worth their weight in . . . (lead?) Your car can't keep the battery in charge with it's stop-start operation. A battery charger solves this problem. You can sometimes double battery life with proper care; this includes keeping the battery charged and not neglecting the poor thing! This new 'Husky' battery charger, made for Dick Smith by Australias leading manufacturer, Fergusons. It features a 4A charge rate, with the latest addition, an ammeter to monitor the charge rate – tells you a lot about your battery. Moulded in tough ABS, virtually unbreakable – will give years of service.
Cat. M-9800 .. .. $29.50
Hey – that's less than the cost of a new battery!

$29·50

XENON POWER TIMING LIGHT

$23·50

Keeping your car timing correct is one sure way to cut down on fuel and maintenance costs. And as any mechanic will tell you, it is the first step in tuning your engine. You can easily do it yourself with our power timing light. Not a half-baked neon tube which has trouble lighting up a white sheet on a black night, this one has a Xenon tube for a brilliant white/blue flash. (Similar to a photographic flash tube). Instructions are included.
Why waste dollars getting your car timed by 'experts' when you can become one yourself in a few seconds!
Cat. A-8508 .. .. $23.50

IDEAL FOR THE BOAT OWNER

CHARGETTE $15.00

QUALITY

Not quite as much output; not quite as much money! The A&R 'Chargette' is a plug-pack battery charger, which is not much bigger than a normal 3 pin plug! It simply plugs into the power point, and its long (2 metre) leads connect to your battery (clips supplied). It is double insulated, and has a charge rate of 1A. A built-in thermal cut-out provides safety if overloaded. It can fully charge a dead flat battery in about 48 hours, or can be left on for long periods as a 'trickle' charger. Every home should have one!
Cat. M-9802 .. .. $15.00

DIAGNOSTIC & TUNE-UP ANALYZER

But timing is only part of the story . . .
There's point gap, point wear, cam wear, capacitor, battery; alternator, etc etc etc! This diagnostic & tune-up analyzer is ideal for the home mechanic as it checks all these, and then some . . . Like RPM, cylinder balance, battery voltage on load, charging, regulator, distributor wear, resistance, etc. Everything you need to know to keep your car going properly. Large, colour coded scale matches selector switch in any easy-to use, handy size meter. Suits 4,6 & 8 cylinder cars. Save many dollars by spending few now.
Cat. A-8512 .. .. $34.75

HANDYMAN MODEL

only $34·75

ECHO CHAMBER $115

Give your music 'presence' or connect it into your hi-fi system for very heady effects.

Features a normal small type endless tape cartridge for easy replacement instead of expensive repairs.

Player heads remain stationary and tape motor speed is changed to vary echo so that tone quality is maintained.

Fully solid state with volume, echo-balance, echo time and intensity controls with an input for remote control foot switch.

Input:	High (50 K) Low (600 ohms) to suit microphone or guitar
Outputs:	High and low impedance Operates from 240 volts AC Complete with one endless cartridge
Size:	267(W) x 152(D) x 127(H) mm

Cat. F–3010 .. .. $115.00

GUITAR PICK UP

FANTASTIC VALUE

$9.75

Works with any amplifier

TURN ANY STANDARD GUITAR INTO AN ELECTRONIC ONE.

Complete with volume control, extra long lead and ¼" phone plug, with smart black non-reflective moulded case and strong steel clip.

Just clip on to your guitar sounding board, plug in the high impedance output and you've entered a new world of music.

Cat. F–3080 .. .. $9.75

CONCERT RHYTHM BOX

12 Rythms for less than $100!

$99.75

This must be the ultimate, giving a choice of 12 rhythms – March, Foxtrot, Rock, R & R, Ballad, Shuffle, Bossa Nova 1 & 2, Latin, Mambo, Waltz, Jazz Waltz, "Instruments" include bass drum, high range, snare drum, claves, high hat. Has tempo and volume controls and start switch. Pilot light flickers in time with beat. Circuit has 22 transistors and 50 diodes. You must hear one to realise potential and incredible value. Beaut timber finish.

Cat. F–3114 .. .. 240V ac operated $99.75

$35

REVERBERATION CHAMBER

Make your group sound really exciting. This studio style chamber has all solid-state design, four inputs (50 K ohms) with full mixing, master reverb control from zero to full 2 second delay. Provision for remote control foot switch.

Output (500 K ohms) connects easily to any instrument amp PA or Hi-Fi.

240 V AC operation.

Cat. F–3025 .. .. $35.00

$32

FUZZ - WAH

Separate Wah-Wah or Fuzz or combine both sounds for truly dramatic effects. Has separate controls for Fuzz volume, Fuzz pitch and Fuzz balance. All you need to make your next performance a real mind blowing experience.

Cat. F-3208 .. .. $32.00

MULTI EFFECTS

This is a wah-wah pedal or foot operated volume control pedal as well as featuring the background sounds of hurricane, surf or siren each with its own volume control. What a fantastic way to improve your group's image!

Dimensions: 250(W) x 110(D) x 75(H) mm

Cat. F-3207 .. .. $32.00

FUZZ UNIT

Give your group today's in sound, gives your guitar the harmony effect of several wind instruments. Has both volume and fuzz controls and is a very low cost way of adding variety to your music.

Dimensions: 166(W) x 95(D) x 50(H) mm

Cat. F-3202 .. .. $16.50

WAH - WAH

Use with any electric guitar or bass to give that 'cry baby blues' effect. Foot operated with skid resistant rubber pedal. Standard phone plug input.

Demensions: 240(W) x 100(D) x 63(H) mm

Cat. F3201 .. .. $21.50

PUBLIC ADDRESS AMPLIFIER **$89.50**

* 2- way, 240 V or 12VDC
*Versatile fixed or mobile mounting
*Mixable inputs for 2 microphones and auxiliary

SPECIFICATIONS

Output power	– 50 Watts peak power
Inputs and sensitivity	– Mic 1 2MX/ 50 K Ohm – Mic 2 2MV/600 OHM
Output impedance	– 4, 8, 16 Ohm, 25 and 70 volt line output
Controls	– Mic 1 level control – Mic 2 level control – Aux 1 and 2 level control, tone control
Operating voltages	– AC or 12 VDC pos or neg ground
Dimensions	– 241 (w) x 85 (h) x 185 (d) mm
Weight	– 3.8kg without bracket

Cat. F2034 .. ..$89.50

MOBILE AMP $39

*116 mm Wide x 38 mm Deep x 163 mm Long
*Full 10 Watt RMS (15 watts peak) into 4/8 Ohms
*With power cable and mounting brackets for easy installation
*2 Inputs - 600 Ohms impedance for Mic or 20K Ohms for AUX connection to cassette or gram,separate tone control on Mic input.
*12v pos or neg DC supply
*Five transistor circuit with diode protected power line. Draws less than 2A at stated output.

INSTALL YOUR OWN MOBILE PA SYSTEM and be in demand for picnics, sports meetings, rallys, rodeos and country shows as well as political meetings and announcements.

DICK SMITH P.A. AMP
Cat. F–2052 .. .. $39.00

PH-58 8" x 5" 8 ohm FLARE SPEAKER
Cat. C-2718 .. .. $22.50

NOISE CANCELLING MIKE
Cat. C–1105 .. .. $8.90

HORN SPEAKER

$8.90

SAVE $2.00

A miniature rugged weatherproof horn 8 ohm 5 watt. Approx. 5" in diameter. Ideal for installations where a deterrent module such as our Electronic Siren Driver Unit has been used. Also used for P.A. work. Can be mounted (via adjustable bracket mounted on its side) inside or outside of buildings. Use it in your car, truck or caravan.

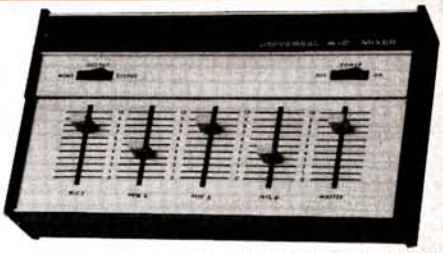
Cat. C-2705 .. .. $8.90

RECTANGULAR REFLEX HORN

ONLY– $22.50

8" x 5" combination outdoor type horn with rubber edge clamping ring to eliminate resonances. Full 15 watt rating, 300 – 5 kHz frequency response – 8 ohms impedance.

Cat. C-2718 .. .. $22.50



STEREO/MONO MIXER PRE-AMP

STEREO/MONO MIXER PRE–AMP

* Modern easy to use, slider type volume controls * 4 microphone inputs, all indiudually switched for 600 Ohm or 50 K Ohm input impedance *
* frequency response, 30 to 20 Khz * powered by 2x216 batteries * 4 channel mono, 2 channel stereo.

Cat. F-2280 .. .. $59.50

$10.50

MIC. MIXER AND PRE-AMP

MIC MIXER AND PRE–AMP

Fully solid state this microphone mixer is designed to feed from 1 to 4 Hi-Impedance sources as found in most microphones, tuner, turntables, recorders, etc.
To a single hi impedance output to tape recorders or amplifiers.

Cat. F-2272 .. .. $10.50

LINE SPEAKER TRANSFORMER $3.50

MULTI–PURPOSE MATCHING TRANSFORMER

SPECIFICATIONS–
4 watts R.M.S. rating
2,4,8,16 OHMS Secondary
2.5K, 5K OHMS Primary

This amazing transformer has been engineered to cover more than 95% of all PA–BGM applications. It is completely suited to all speaker impedances.
Multitapped for use with 100V or 70V lines 52mm mounting suits most Australian and overseas speakers. **A REALLY VERSATILE UNIT.**

	1-9	10 up
Cat. M-1100	$3.50	$3.00

MICROPHONES

ELECTRET MIC'S

DUAL IMPEDANCE CARDIOID

Terrific directional selectivity and high noise reduction with this versatile mic.

Polar pattern:	uni-directional cardioid
Impedance:	Dual 50K and 600 Ohms
Frequency response:	20-18,000hz
Cable:	6 metres with phone plug
Power supply:	DC1.5V penlight size
Accessory:	MIke holder and wind screen
Dimensions:	22mm (dia) x 195 mm (long)
Net weight:	150 gram

Cat. C-1068 .. $29.95

DUAL IMPEDANCE OMNI

The best omni- directional microphone we stock, with flat response over the full audio range.

Polar pattern: omni - directional

All other specifications as per cardioid microphone., Cat. C-1068.

Cat. C-1064 .. $24.95

TIE CLASP MICROPHONE

Tiny " Secret" electret condenser mike.
The " hands free" way:—

Polar pattern:	omni-directional
Impedance:	600 Ohms
Frequency response:	50-16,000hz
Cable:	3 Metres with phone plug
Power supply:	DC 1.3V mercury battery (H-B)
Dimensions:	14 mm (dia) x 31 mm (long)
Net weight:	55 grams

Cat. C-1060 .. $13.50

PRO DYNAMIC MIC'S

DYNAMIC CARDIOID PRO-MIC

Exceptional value at our low price.
Just look at these specs.

Polar pattern:	Uni-directional
Impedance:	Dual 50K and 600 Ohms
Frequency response:	60-15,000hz
Cable:	6 metres with phone plug
Dimensions:	37 mm (dia) x 203mm (long)
Net weight:	265 grams

Cat. C-1040 .. $29.50

UNI-DIRECTIONAL DYNAMIC

Ideal for PA work where feedback is a problem. Dual impedance, high and low sensitivity and on/off switch.
Specifications as for C-1040 excepting :-

Dimensions: 41mm (dia) x 190 mm (long)

Cat. C-1030 .. $22.50

DYNAMIC DESK TOP

IMPORT VALUE $17.50

Excellent for PA and amateur use with base featuring push to talk and slide lock.

Polar pattern:	Uni-directional cardioid
Impedance:	50K Ohms
Frequency response:	60-15,000 hz
Cable:	3 metres with phone plug
Dimensions:	200(h) x 75(w) x 110 (d) mm

Cat. C-1075 .. $17.50

ECONOMY MIC'S

DYNAMIC OMNI MIC

For amateur radio and tape recorder use, excellent value at our low price.

Polar pattern:	Omni-directional
Impedance:	50K Ohms
Frequency response:	80-13,000 hz
Cable:	6 meters with phone plug
Dimensions:	35 mm (dia) x 170mm (long)

Cat. C-1025 .. $13.50

DYNAMIC CASSETTE MIC

Perfect replacement for all cassette recorders with low impendance input. Remote switching and on/off switch.

Polar pattern:	omni-directional
Impedance:	20-600 Ohms
Frequency response:	100-10,000 hz

Cat. C-1015 .. $4.50

PENCIL TYPE CRYSTAL MIC

Pencil type crystal microphone with built in on/off switch. Very good value.

Polar pattern:	omni-directional
Impedance:	500- IM Ohms
Frequency response:	120-8,000 hz

Cat. C-1020 .. $7.90

LAPEL MIC

Popular all purpose high impendance crystal mike.
Frequency response 200-8,000hz — Chrome finish — 1.5/8" Diameter — Omni-directional — One metre of shielded mike cable supplied.

Cat. C-1010 .. $2.25

CERAMIC MIC INSERT

$1.95

Can be used to upgrade or repair your current Mic. This is just 46mm diameter x 13.5mm deep. Sensitivity — 55dB. Frequency responce 50Hz — 12KHz.

Cat. C-1164 .. $1.95

ELECTRET CONDENSER MIC INSERT

If you want to repair or make a microphone, you can't go past these little inserts: omni directional, 55dB sensitivity and 40dB S/N ratio (min). Just 10 x 7mm weighs only 1.5 grams. Will fit most popular brands of microphone. **1 — 3V operation.**

Cat. C-1160 .. $1.95

ACCESSORIES

MIC BOOM

31" boom with completely adjustable counter weight standard 5/8-27 thread.

Cat. C-1230 .. $13.60

DESK STAND

Be a pro and use a desk stand. Stable design base finished in black with 4" chrome tube. Standard thread.

Cat. C-1240 .. $6.50

FLOOR STAND

Designed with chrome finish tube and "Full grip" clutch mechanism allows full adjustment from 30" to 60". Heavy diecast base 12" diameter. Standard thread on tube.

Cat. C-1220 .. $19.50

GOOSENECK

Bright chrome finish 13" long with standard thread to fit stands and mikes.

Cat. C-1226 .. $5.75

MAGNETIC MIC HOLDER

Attaches instantly to any ferrous surface with powerful magnet very useful with CB equipment.

Cat. C-1260 .. $0.90

SCREW-ON MIC HOLDER

Similar to C-1260 but has screw attachment. Screws supplied.

Cat. C-1262 .. $0.60

MICROPHONE LINE TRANSFORMERS

Just plug it in. Input in low impedance 100-250 Ohms — output is high impedance 50K. Fully shielded metal construction fitted with phone jack plug and socket.

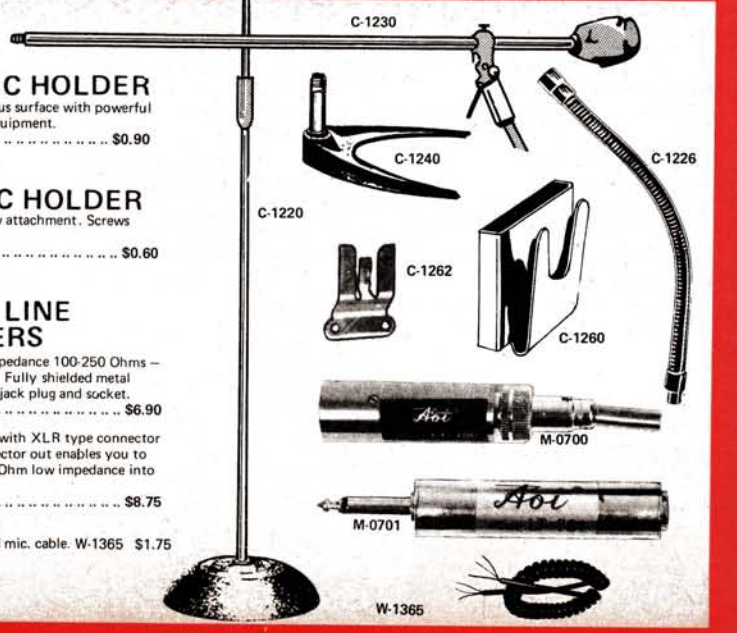
Cat. M-0701 .. $6.90

For the professional, this unit with XLR type connector in and standard 5/8" - 27 connector out enables you to connect 600 Ohm or 150-600 Ohm low impedance into 50K high impedance out.

Cat. M-0700 .. $8.75

COILED MICROPHONE LEAD

2m. Coiled 3 conductor shielded mic. cable. W-1365 $1.75



Southern Cross Speakers

DICK'S VALUE PLUS SPECIAL

$5.90 $8.90 $27.50 $35

THIS SUPERB RANGE OF SPEAKERS, FULLY IMPORTED BY DICK SMITH ELECTRONICS, HAVE BEEN CHOSEN BY ELECTRONICS AUSTRALIA FOR THEIR LASTEST " PLAYMASTER " SPEAKER SYSTEM

12" 3 WAY SPEAKER KIT — $130

C-2042 (pair)

The complete kit as used in the Playmaster 3/75L system consists of, two each of the following:- C-2022 12" woofers- C-2028 5" mid range - C-2032 3" tweeters - C-2513 3 way crossovers - C-7210 & C-7212 fader controls plus instructions and wiring harness. Use with C-2622 box kits (see pages 18 & 19) or design your own cabinets.
Handles 80 watts peak power at 8 Ohms.
Cat. C-2042 .. .. **$130.00**

10" 3 WAY SPEAKER KIT — $99.75

C-2044 (pair)

This is the speaker kit as used in the Playmaster 3/53L system Two of each of the following are supplied: C-2024 10" woofers C-2028 5" mid range - C-2032 3" tweeters - C-2513 3 way cross-overs plus wiring harness. Use with C-2624 box kits (see pages 18 & 19) or design your own.
Handles up to 60 watts max at 8 Ohms.
Cat. C-2044 .. .. **$99.75**

HI—FI SUPER -TWEETER 2½"

An excellent choice if you want to augment the sound of the C-2610 8in universal cabinet. This unit features an aluminium cone directly over the voice coil to further dissipate the high frequency energy - especially in the 15 — 20kHz region. Stiff curvelinear cone transducer handles lower frequencies down to 2000Hz. 8 ohm impedance, with high power handling capacity. Easy flush mounting, as featured in the Playmaster 3/75L & 3/53L systems.
Cat. C-2032 .. .. **$5.90**

THE YOUNG SMOOTHIE!

This 5" midrange speaker has amazingly mellow characteristics — even mellower than the price!
As featured in the Playmaster systems 3/75L (May EA) and 3/53L (June EA). An amazing unit for the price.
-special fabric surround - high power handling capacity fully sealed back.
Cat. C-2028 ..... **$8.90**

FABULOUS 12" DRIVER

HERE 'TIS! yes, if you like you can buy the fabulous 12" driver as featured in the C-2042/Playmaster 3/75L system - separately! Featuring:- 8 Ohm - 80 w max power handling cap - free edge design - 35 HZ free air resonance.
Cat. C-2022 .. .. **$35.00**

10" BASS DRIVER

This unit features in the C-2044/Playmaster 3/53L system as outlined in June EA. Similar features to the C-2022 12" unit. - 60 W power handling - free edge design - 8 Ohm - 35 HZ free air resonance - capable of massive cone excursion without poling.
Cat. C-2024 .. .. **$27.50**

1" DOME TWEETER — $9.50

1" DOME TWEETER
For those who choose the dome tweeter transducer in principle - this is the one for you! Ultra wide dispersion easily into the 20kHZ region.
- 20 watt max power handling (ideal for 80 watt systems) - ultra smooth response - ready availabilty.
Another excellent choice to augment our C-2610 8" enclosure!- or use in the Playmaster systems if you so desire.
Cat. C-2004 .. .. **$9.50**

$4.50

STEREO L PAD

Controls audio level (attenuation 30 db to 0.5 db) whilst maintaining constant impedance matching between amplifier and remote speakers to ensure distortion free power transfer.
PANEL OR SPEAKER ENCLOSURE MOUNTING.
ESSENTIAL FOR CORRECT INSTALLATION OF REMOTE SPEAKERS
Medium power rating into 8 ohm. Complete with instructions.
Cat. C-7205 .. .. **$5.50**

HI POWER L PAD

MONO 8 OHM IMPEDANCE

CONSTANT IMPEDANCE.
15 WATTS CONTINUOUS, 30WATTS PEAK.
Ideal for controlling higher powered speakers placed outside for the BBQ or in a large play room.
Can be mounted on a remote panel or in the speaker cabinet.
Complete with instructions. Ideal tweeter control
Cat. C-7204 .. .. **$3.50**

7 WAY SWITCH

FILL YOUR HOME WITH SOUND!
Stereo selector switch enables you to select any combination of three sets of remote speakers.
TERRIFIC FOR PARTIES IN MORE THAN ONE ROOM.
HOW CONVENIENT TO SWITCH SPEAKERS AS YOU MOVE FROM ROOM TO ROOM — EVEN OUTSIDE
Attractive brushed gold finish steel wall plate fits any standard electrical box outlet.
Cat. C-7208 .. .. **$4.50**

SPEAKER BOX LINING

FAMOUS 'INNER BOND' WONDER WOOL
INNERBOND is light, clean, dust free and easy to handle.
Fibre bonding ensures that this cellulose acetate insulation will remain resilient and not fracture or break down due to vibration.
Weighs approx. 450 grams/sq.meter when 25 mm thick x 700 mm wide and this is the density recommended for use.
COMES IN ROLLS SO ORDER ANY LENGTH YOU WANT.
Cat. C-2662 .. .. **$2.50/metre**

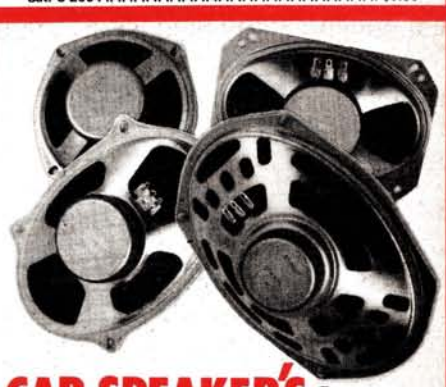
HI & MIDRANGE LEVEL CONTROL'S

NOT JUST FADERS BUT CONSTANT IMPEDANCE NETWORKS!
These should be seen to be appreciated. Dual concentric heavy duty wire wound elements ensure proper loading of crossover and amp. at all times.
- **High power handling capacity**
- **Attractive, easy to mount**
- **Latest flush mount design**
- **Fully sealed front and back - no air leaks**
- **+ & — 2dB calibration markings**
- **Available with either HIGH or MID range markings**

HIGH RANGE Cat. C- 7212 .. .. **$4.50**
MID RANGE Cat. C- 7210 .. .. **$4.50**

3 — WAY CROSSOVER NETWORK
As used in the Playmaster 3/75L and 3/53L Systems.
Standard 8 ohms impedance. Two inductor network with rugged non-polarised cross-over capacitors. This unit is designed to work with the C-7212 & C-7210 fader controls if necessary.
Crossover frequencies are ideally placed at 1500Hz & 5000Hz.
High power handling!
Cat. C-2513 .. .. **$7.50**

2 — WAY CROSSOVER NETWORK
The ideal unit for two way systems. Special L/C circuit efficiently divides power from amp. to low and high frequencies. Ideal addition to C-2610 cabinet if tweeter option required.
8 ohm impedance crossover approximately 3kHz.
Cat. C-2512 .. .. **$4.90**



CAR SPEAKER'S from 5.75

HEAVY DUTY — DUST PROOFED WITH LANTOR CLOTH.
DUAL 4 AND 8 OHM IMPEDANCE
Size 5" (130 mm) round, used in most Japanese cars.
Cat. A-7145 .. .. **$6.25**
Size 6" x 4" (150 mm x 100 mm) oval, used in Volvo, Triumph, Fiat-125, V.W.
Cat. A-7130 .. .. **$5.75**
Size 8" x 4" (200 mm x 100 mm) oval, used in all Fords 1968-76.
Cat. A-7150 .. .. **$7.95**
Size 7" x 5" (180 mm x 130 mm) oval, used in Holden-Valiant, 1965-76
Cat. A-7135 .. .. **$7.25**
Size 9" x 6" (230 mm x 150 mm) oval, used in earlier model Holden-Valiant
Cat. A-7140 .. .. **$9.50**

MINIATURE SPEAKERS

8 OHM DIRECT REPLACEMENTS
FOR TRANSISTOR RADIOS — WALKIE TALKIES PROJECTS
Easy to fit and can save you $$$ on repairs or new equipment.

2.00" (51mm)	Cat. C-2220	$1.33	10up	$1.10
2.25" (57mm)	Cat. C-2222	$1.30	10up	$1.10
2.50" (64mm)	Cat. C-2224	$1.40	10up	$1.20
2.75" (70mm)	Cat. C-2226	$1.45	10up	$1.25

DICK SMITH UNIVERSAL SPEAKER BOX KIT

MAKE EXCELLENT STACKABLE P.A. SPEAKERS ALSO!

$27.50 each

DICK'S VALUE PLUS SPECIAL

This construction kit is so versatile it is a delight just to contemplate how you will tailor your requirement against what you can do. For example, if you are budget budget minded but still want a Hi-Fi sound, choose a pair of these boxes plus the twin cone Plessey/Rola C8MX (Cat. C-2012) speaker and you have a bookshelf enclosure that cost you around $35.00 but sounds like a $90.00 unit. That's right a pair for $70.00!!!
If you are power minded you can mount the C-2100 8" twin cone speaker. You can also mount a tweeter, (C-2032 or C-2004). Use the C-2512 crossover plus the C-7212 fader for a really professional job! The possibilities are almost endless !!!
But most importantly they still must sound good. Deep rich bass results because the cabinets are machined to close tolerance (the same cabinetmaker makes these as the famous Playmaster 3/75L & 3/53L)
The kits come complete with deluxe foam baffle, acoustic damping material, screws etc. You'll only need a tube of glue and a screwdriver.
— Complete illustrated instructions supplied. — Quality walnut veneer in vinyl. External dimmensions :—
520 H x 292 W x 222 D mm.
Cat. C-2610 .. .. $27.50 ea.

Playmaster *Speaker Systems*

IN A WORD . . . 'MAGNIFICENT!!!'
Until now you would have had to pay a king's ransom to obtain a truly hi-fi high power loudspeaker system. The problem was always the size of speaker versus cabinet dimensions. If you put a small cone speaker in a large box it sounded good but had no real sensitivity. On the other hand, if you place a large driver in a small box this results in a system resonance in the order of 85 — 100Hz: hardly a serious proposition to the hi-fi connoisseur! With these thoughts in mind, Neville Williams of 'Electronics Australia' set out to produce a 12" 3-way system without the normal compromises. In a word, the result was magnificent.

On the right, you see the Playmaster 12" 3-way system. This enclosure has an enormous 75 litre capacity enabling the bass driver to easily reproduce to 40Hz —and lower! This, coupled with the high power fabric-surround midrange and super tweeter render it, as Neville Williams says: "We'll back it against many of the systems in Hi Fi showrooms carrying a much higher price tag" . . . (EA, May '77).

And it looks good, too! (Whilst an acoustically designed foam grille is supplied you will want to run them with the foam removed!) We have imported special flush mount mid & high range controls matched in appearance and performance to the speakers. The beauty of the system is enhanced by the use of durable walnut vinyl veneer cabinetry. No varnish or hand rubbing here!

For those who require a smaller system we have the 10" 3-way. This system has almost the same sound and an equally magnificent appearance, in a more compact form. The faders in this model are an optional extra.

No parameters have been spared in the development of these systems, and we are certain that you will agree.
N.B: For those who have built the twin 25 or forty-forty, they have special significance as the systems were designed with these amplifiers in mind. Mind you, a 10 watt amplifier will sound like a 30!!!

3-75L
12" SPEAKER SYSTEM
$254 pair

This system consists of a pair of our C-2042 speaker kits (see page 17),plus a pair of beautifully made 75 litre speaker boxes cabinets. Cat. C-2622. Full instructions are supplied and you virtually only need a few hand tools. And a small tube of glue to complete the system in less than 2 hours. For full details see the May 1977 issue of Electronics Australia or write to us for a copy of the article.
This system will handle up to 80watts peak at 8 Ohms.
External dimensions approx. 717H x 475W x 293D mm;
Finished in simulated walnut veneer and supplied with expensive foam fronts.

ORDER AS FOLLOWS
Cat. C-2042 Speaker Kit (pair).. .. .. $130.00
Cat. C-2622 Box Kit (pair) $124.00
Total Systems Price (pair) $254.00

NOTE:- Box kit (pairs) C-2622 are available without C-2042 if required.

3-53L
10" SPEAKER SYSTEM
$189.25 pair

Very similar to the 3/75L system but more compact. The ideal system where space is at a premium.
External dimensions are approx 620H x 393W x 293D mm.
Will handle up to 60 watts peak into 8 Ohms.

ORDER AS FOLLOWS
Cat. C-2044 Speaker Kit (pair) $99.75
Cat. C-2624 Box Kit (pair) $89.50
Total system price (pair).. .. .. $189.25

NOTE:-Box Kits (pairs) C-2624 are available without C-2044 if required.

SPEAKERS TO SUIT UNIVERSAL KIT ABOVE

30 WATT SPEAKER

- 16 OZ. MAGNET
- ALUMINUM VOICE COIL
- AIR SUSPENSION
- 30 WATTS (MAX.)

$18.50

What a thumper! Powerful compliance air-suspension dual cone with aluminium dual-impedance (4 & 8 Ohms) voice coil, results in about the best speaker around! This unit is an ideal match to the C-2610 cabinet shown above. An amazing powerful but pleasantly smooth Hi-Fi enclosure results. Ideal 'book shelf' enclosure or quality P.A. outlet.
— 30 watt rating — Dual 4/8 Ohm voice coil — Free-air resonance around 35Hz. Don't be surprised if you see the bright blue cone move up to ½" on the heavy audio passages!
Cat. C-2100 .. .. Also ideal for car stereo. $18.50

BUILD YOUR OWN LOUDSPEAKERS

$169.50 PER PAIR

You can assemble this system yourself without tools in less than an hour. Contains absolutely everything you need — even glue!
The system incorporates a 200 mm woofer, 50 mm mid-range and 50 mm tweeter as well as a high frequency level control.
Wooden finish cabinet with contemporary orange acoustic cloth.

SPECIFICATIONS
Power Handling .....25 Watts RMS
Frequency Response.....40 - 20,000Hz
Impedance 8ohms
Crossover Frequency..3kHz-10kHz
Dimensions..456mm(H)x253mm(W) x205mm(D)
Net Weight..... 5.4kg

VALUE **$84.75** EACH

THE J.V.C. 3WAY SPEAKER KIT

EASY TO ASSEMBLE

Cat. C-2638 .. .. $84.75 *Dicks Price*

C8MX

FAMOUS ROLA

THE IDEAL SPEAKER FOR YOUR YOUR UNIVERSAL SPEAKER BOX KIT!
HIGH QUALITY WITH FERRITE MAGNET. TWIN CONE FOR FULL RANGE HIGH FIDELITY RESPONSE (30Hz —18000Hz), 10 WATT RMS POWER INPUT 8 INCH, 8 OHMS IMPEDANCE REMEMBER WHEN THEY COST, $14.50 EACH? NOW YOU CAN SAVE $5.00 PER SPEAKER OR EVEN MORE IF YOU BUY 5 FOR ONLY $8.75 EACH!

$9.50

Cat C-2012 .. .. $9.50

15WATTS VALUE

These very impressive speakers are supplied with a 202mm high compliance woofer and a 50mm tweeter with exposed horn duct plus a built-in crossover network. Dimensions (mm) 395 x 270 x 170. Perfect for 4 channel add-ons, a walnut grain vinyl coated cabinet. 15 watts into 8 ohms from 60 — 16000Hz. Remember this amazingly low price!
Cat. A-2460 .. .. $29.50 each

SPEAKER CLOTH

Have you ever looked at your speaker system and wondered what it would look like with a different colour or weave?
Well wonder no more for Dick Smith has added four new speaker cloths to his catalogue. Reproduced in colour opposite to give you a general idea of weave and colour.
Each speaker cloth comes in the very usable size of 52 x 80 cm
Four colours are available;
BLACK .. .. Cat. C-2650 .. ..$4.50
CREAM .. .. Cat. C-2652 .. ..$5.25
BROWN .. .. Cat. C-2654 .. ..$5.90
NAVY .. .. Cat. C-2656 .. ..$5.90

Playmaster *3-Way Speaker Systems*

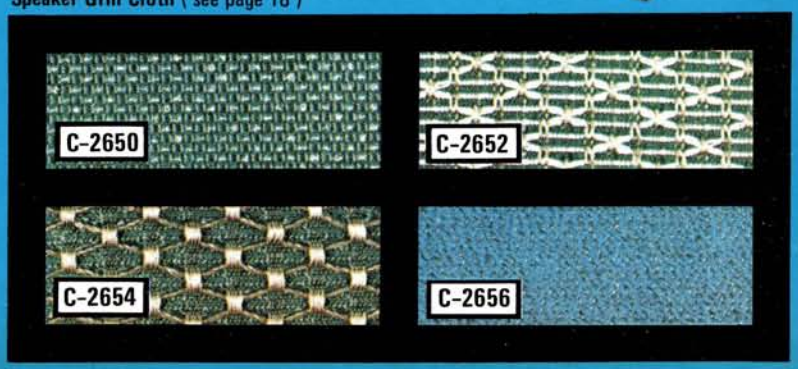
-and you build them yourself

Designed by
Neville Williams
Editor in Chief
Electronics Australia

3/53L 10" 3 Way
Speaker System
– 53 Litre
Compact Size

3/75L 12" 3 Way
Speaker System
–75 Litre Capacity
at an Economical Price

Speaker Grill Cloth (see page 18)



DICK'S KITS LOOK SO GOOD YOUR FRIENDS WONT BELIEVE THAT YOU BUILT THEM.

Musicolor Mk 111 Circuit Board

Below
Playmaster Forty / Forty Stereo Amplifier (with optional Timber Sleeve) **Cat. K-3411 & Cat. H-3113**

Playmaster Twin 25 Stereo Amplifier Cat. K-3410

Above
Musicolor Mk 111 Colour Organ Cat. K-3140

DICK'S KITS are complete to the last nut and bolt. Being the largest supplier of kits in the southern hemisphere means having the expertise and supply back-up to make sure you get your kit quickly and without problems — at a price you'll find hard to beat! We are proud of our kits and our service — but if you would like us to help you more, please read the comments below. Happy constructing!

Building projects from kits is one of the best ways to save money and learn all about electronics at the same time. Our range includes the most popular local designs from the magazines *Electronics Australia* and *Electronics Today International*. Kits are available to suit the absolute beginner right through to professionals.

There's such an enormous future for electronics that you can't afford to miss out. Just reading about it isn't enough, you need real experience of making circuits and getting them to work. And what better and cheaper way than kit building? You learn as you build something worthwhile and what you build is worth a lot more than the price you paid for the kit!

All the projects we have included are the most reliable of their kind. We keep in constant touch with the magazines and circuit designers to ensure that our kits are absolutely up-to-date. We check all our components against their parts lists to ensure the best performance. Sometimes we are forced to make substitutions ... usually of better parts ... and these are checked where possible with the author concerned.

Most troubles with kits are caused by lack of experience and poor workmanship or just plain carelessness. It's your handiwork, so build something you can be proud of! Soldering is the cause of 90% of faults — make sure of every joint as you go along, it'll save you hours of tedious checking.

Start off with simple projects till you have the experience for the harder ones. They are just as much fun and will help develop your skills. It will also help you to understand how the circuits work and simplify fault location.

Because we maintain close links with the circuit designers, we are usually able to include complete instructions with any late modifications. While we are naturally keen to help you, if there are any problems with the finished project, it is normally very much quicker if you write to the author of the project direct. They are much better equipped to provide technical and service advice — especially as they are dealing with everyone who has built the project and not only our customers.

Our kit department receives complaints from customers who say the components they receive are not those which were specified in the project. As mentioned above, we are forced to make (correct) substitutions at times, but as a rule we find it is not these components which are being queried!

In most cases, we find the query has occured because many people do not know how to read manufacturer's codes — or because they do not realise components change in shape. The oval component of today may well be the square component of yesterday!

OUR GUARANTEE

ALL OUR KITS USE BRAND NEW, TOP QUALITY COMPONENTS, WHERE POSSIBLE TO THE SPECS. GIVEN IN THE ARTICLES. OCCASIONALLY WE ARE FORCED TO SUBSTITUTE ALTERNATIVES, BECAUSE OF SUPPLY PROBLEMS, BUT THESE ARE CHECKED OUT WITH THE MAGAZINES CONCERNED.

A good example of this (and one of our most common queries) is resistors. Some of our resistors are the very latest 'metal glaze' types, which as a rule are around half as small as their contemporaries. (eg a 1/2W metal glaze is around the same size as a 1/4W carbon type.) Yet all values may not be available in metal glaze, so we must put in some of the more familiar carbon types. So there may be two different sizes, but they are the same value!

So you see the problem. If you receive a component which may appear odd, the chances are it is correct. And the chances are it is not faulty, too — another complaint. As all semiconductors and most other components are checked by the manufacturer, the chances of our stocking a faulty component are pretty remote. And the chances of you receiving one are about a million to one!

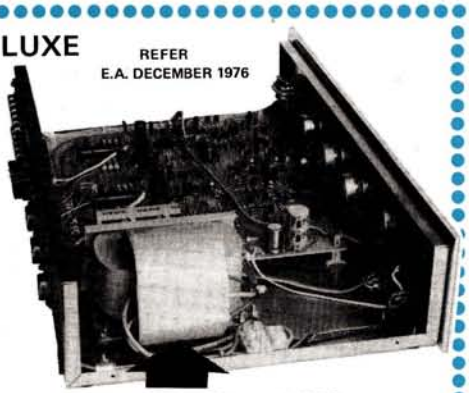
If you feel that you do have a legitimate grievance, however, please get in touch with us. We like to keep our customers happy!

NOTE: None of our kits include batteries since they have a relatively short life and if damaged cause even more damage to components. Most kits include high quality PCB's, all wire, nuts & bolts — even solder — and where we can arrange copyright ... full instructions.

PLAYMASTER FORTY/FORTY DELUXE

REFER E.A. DECEMBER 1976

The fabulous Playmaster Forty/Forty has been designed with YOU in mind! Impressive performance, very simple construction and setting up and, perhaps most important, really professional looks! The exclusive 'C' core transformer makes this amplifier quieter and more powerful than its contemporaries with normal transformers. And YOU can build this one with our exclusive construction manual. All you need to know INCLUDING trouble shooting just in case! Don't be misled by other amplifiers with similar names — there is only one Playmaster Forty/Forty and this is it!
Cat. K-3411 .. .. $119.50



SPECIFICATIONS FOR BOTH THE PLAYMASTER FORTY FORTY AND THE PLAYMASTER TWIN 25

Power output:
Forty Forty — 40 watts per channel into 8 ohms, 1 channel driven
Twin 25 — 25 watts per channel into 8 ohms, 1 channel driven
Frequency response: ± 1dB from 25Hz to 20kHz, tone controls level
Compensation: RIAA within ± 1dB
Sensitivity: Phono 2mV into 56k for 40 or 25W output, Other inputs 150mV into 36k minimum
Overload: 120mV (phono input)
Sig/noise ratio: 70dB @ 10mV (phono input). Other inputs 70dB
Distortion: Less than 0.05% at normal listening levels
Bass/Treble controls: ± 13dB nom. at 50Hz and 10kHz
Stability: Unconditional

THE "FORTY FORTY" HAS AN EXCLUSIVE 'C' CORE LOW NOISE (LH) TRANSFORMER

FEATURES OF THE TWIN 25 & FORTY/FORTY AMPLIFIERS.

- Exclusive bronzed anodized front panel
- Professional knobs to match front panel
- Level graduations on bass & treble control
- Simplified construction and instruction manual
- Special silk-screened fibreglass PC board
- Simple construction — no 'fiddly' wiring required.

PLAYMASTER TWIN 25

REFER E.A. April, May 1976

So you don't need quite so much power in your pad? The Playmaster Twin 25 is the amplifier for you. Just as easy to build, just the same impressive looks, just the same impressive performance as its 'big brother' — it's just a little less powerful and a little less in price! Still, 25 watts per channel is a lot of power — more than enough to entertain all your neighbours if you want to! And 25 watts is ideal for most of the 'compact' speaker systems available. 'It is about half the price of an imported amplifier with the same power output' says its designer, Leo Simpson of Electronics Australia magazine.
Cat. K-3410 .. .. $95.00

TWIN 25 — FULLY BUILT & TESTED

Despite the fact that the Twin 25 is easy enough for anyone to build, we have had hundreds of requests for someone who would construct the kit — a request which, up till now, we have had to turn down. Now we have been able to arrange for someone to construct these amplifiers, at a really incredible price. Just $30.00 more than the component price!!!! So for all the people who haven't the time, or maybe are a bit wary about tackling a project like this, we can now help you. And you'll have an amplifier easily comparable to units selling well over twice the price you'll pay for it! Please note: Strictly limited supply — our constructor has to sleep occasionally . . .
Cat. A-1266 .. .. unit fully built & tested $129.00

Playmaster Options

PLAYMASTER CONVERSION: TWIN 25 TO FORTY/FORTY

If you already have a Playmaster Twin 25 and would like the added 'oomph' of the Playmaster Forty Forty, we have a special 'Forty Forty Conversion Kit' just for you. It includes all components needed to change your amplifier over, including the exclusive special C core transformer. Full instructions are supplied, including a circuit to use your surplus Twin 25 transformer in a bench power supply!
Cat. K-3435 .. .. $29.50

NOTE : *The late model Twin 25's already have Forty Forty circuit modifications so, if your kit was supplied with a Twin 25 Forty Forty manual, you will only need to buy a 'C' Core transformer.*

TIMBER DRESS SLEEVE

These Playmaster amplifiers look superb as they are — but if you want YOUR amplifier to have that 'touch of class' of the $$$$$ imported amplifiers, here is a timber sleeve with a simulated walnut veneer finish — suitable for both the twin 25 and forty/forty.
Cat. H-3113 .. .. $7.50

SPEAKER PROTECTOR

Refer June 76 E.A.

With most amplifiers, there is a loud 'thump' when it is turned on. Besides being annoying, this thump is downright dangerous, as speakers do not like being overloaded in this way. In some cases, it could wreck your speakers. The solution: a speaker protector, which delays connection of the speakers until a few seconds after switch-on Thus the surges are eliminated. Suitable for almost all amplifiers.
Cat K-3425 .. .. $11.95

EXCLUSIVE !

YES ! BOTH KITS NOW HAVE IMPROVED FORTY FORTY CIRCUIT

With your Twin 25 or Forty/Forty kit, you get this exclusive 20 page construction and instruction manual. All you need to know to build this kit successfully even if you are a raw beginner — what the parts look like, how to solder, how to check the amplifier out and set it up, etc. And Dick's trump card: the exclusive 'Sorry Dick it doesn't work' coupon which allows, for a low charge, return of the unit for repair just in case you do strike a snag and can't work it out yourself. So you must win with this one. Save yourself a bundle.

Musicolor

MK 111 COLOUR ORGAN

Turn your music into light! This incredible device accepts audio input from just about any amplifier and uses the information to control 3 channels of coloured lights. When the music is fast and jumpy — so are the lights. When the music is slow and soothing, so are the lights. Yet it does not affect your amplifier or music in any way! You can build this kit even if you have never seen a resistor in your life. The book that comes with it tells you what one looks like! Thousands of these devices have been built — think how your next party would go with a built-in disco!
Cat. K-3140 .. .. $59.00
(A couple of years ago we sold an inferior unit to this one for $59.00 — hows that for anti-inflation!)

SHORT FORM MUSICOLOR

A special 'short form' kit is available without the bronzed anodized front panel, the matching imported knobs, the case or the hardware This kit contains all the electronics and controls for those who wish to build the Musicolour into a lightshow box, etc. Instruction book is still included! **Cat K-3141 .. .. $32.50**

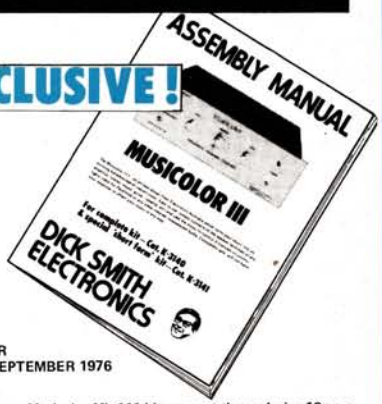
TIMBER DRESS SLEEVE

Dress up your Musicolor Mark111 using this attractive timber sleeve with a simulate walnut finish. Adds the final professional touch.
Cat. H-3161 .. .. $6.50

FEATURES OF THE MUSICOLOR MK III COLOUR ORGAN

- Bronzed anodized front panel
- Matching imported quality knobs
- Controls ordinary incandescent lamps or spotlamps, etc, up to 2400W total
- Inbuilt compressor (level control)
- Foolproof, easy construction
- SAFE — will not harm your amplifier or speakers in any way. Completely isolated.

EXCLUSIVE !



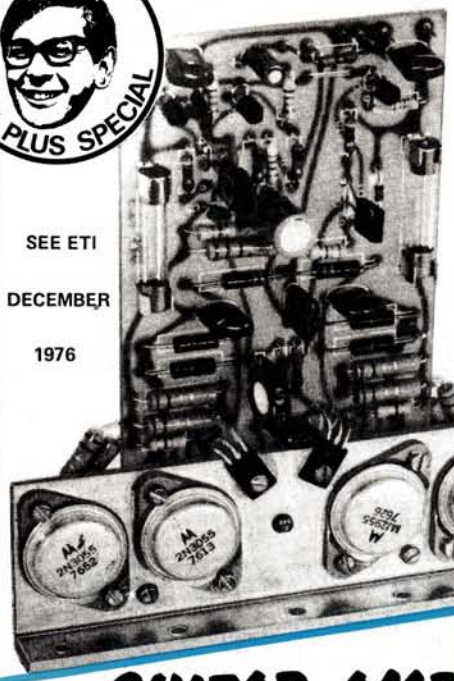
REFER E.A. SEPTEMBER 1976

With your Musicolor Mk 111 kit, you get the exclusive 16 page construction and instruction manual. All the features of the Playmaster booklet, including the return coupon!

Not too keen about making the Musicolor, but you still want a lightshow . . .
Don't despair — we have something to suit you. On page 7 you'll find our 'lightshow boxes'. These are ready to go, and consist of a similar circuit to the Musicolor and a pattern of coloured lights inside a wooden box. You can see one of these working at any Dick Smith Store!

DICK'S VALUE PLUS SPECIAL

SEE ETI DECEMBER 1976



100W & 50W RMS POWER AMPLIFIER MODULE KITS

ETI 480 100W RMS POWER AMP MODULE
100 Watts RMS –5Hz to 50KHz at 100dB sig. to noise.
New ETI 480 short form amplifier kit. The ultimate in simplicity – even the power transistors mount on the one PCB. PCB heatsink bracket is supplied with the silk-screen overlay on our fibreglass heavy-duty printed circuit board.
The design is based on the time-proven reliable ETI-422 power-amp without the power-transistor wiring hassles.
Ideal for the home constructor or technician who wants to "roll his own" amplifier system for home or professional use.
Has on-board fuse protection. Input sensitivity – 1V. use with K-3438 power supply.
Cat. K-3442 .. .. $25.00

100W ~ $25

FREE
WITH EITHER AMPLIFIER KIT
These exclusive Dick Smith guides give you the information the magazines forget! Step-by-step guide to building, setting up, etc, with all parts identified. Real value — and you get one absolutely free with either kit.

ETI 480 50W RMS POWER AMP MODULE
Ideal for home stereo systems for those who feel 50W + 50W is O.K. but 100W + 100W is too much. Same design, same simplicity as 100W unit at left. Added economy as two units can be run from the K-3438 power supply. An economical solution for those who want to update their old system without a huge outlay of money. The compact design makes this module the obvious choice wherever a medium power general-purpose amplifier is required. Input sensitivity 500mV. Supplied with special DSE instruction booklet and rugged fibreglass PCB with silk-screened component overlay for easy assembly. Heatsink bracket supplied but heatsink is extra.
Cat. K-3440 .. .. $19.50

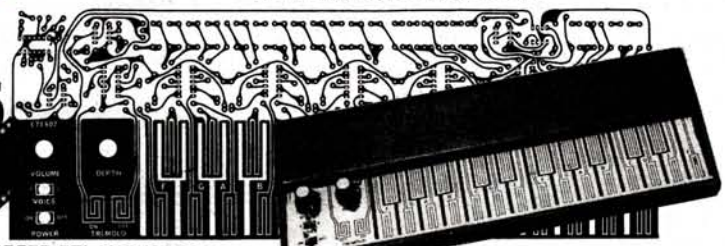
HEATSINKS RECOMMENDED FOR THESE MODULES:
Brand new imports, just to suit these amplifiers. Finished in matte black for optimum efficiency with radial pattern fins.

Cat. H-3422 75mm long, ideal for the 50 watt module. **$3.00**
Cat. H-3426 A whopping 225mm long, more than enough for the rigours of the 100 watt version. **$8.50**

ETI 480 PS POWER SUPPLY FOR K-3440, K-3442 AS RECOMENDED BY E.T.I.
Full PCB and component kit for one K-3442 or two K-3440 modules. Supplied complete with speaker de-thump relay and Zener regulated +&– 15V pre-amp rails. Special Dick Smith assembly inst. supplied. Transformer extra (MO144 refer to page 47)
Cat. K-3438 .. .. $17.50

ETI 602 MINI ORGAN

$24.75



IDEAL KIT FOR BEGINNERS

REFER ETI AUGUST 1976

Fantastic new design uses CMOS integrated circuits and a total of 39 semiconductors to give a touch control keyboard. Uses touch switches for tremolo with a control for variable depth; also has two switchable voices; built-in IC amplifier with volume control, supplied complete with speaker. This mini-organ is simple to build – all parts are mounted on a rugged fibreglass PCB which has the keys etched into the copper pattern. The PCB foil is plated for easy soldering, and the component overlay is silk-screen printed on the board for easy assembly. Operates from batteries (not supplied). Comes with full instructions (sorry – case not supplied);
Cat. K-3430 .. .. $24.75

GUITAR AMP PRO QUALITY

100 WATTS RMS
$85.00

ETI 413

Note Picture above shows amp with built-in preamp (K3030) below.

An extremely rugged, reliable power amplifier, with wide frequency response and low distortion which puts it well into the Hi-Fi region, and at 100 Watts RMS
To simplify construction we supply a special heavy gauge aluminium case and heatsinks, both completely pre-drilled. We also supply a can of black spray paint to help heat dissipation and give a neat appearance to the finished amplifier. The optional pre-amp Kit K3030 may be built direct into the case, or use with a separate mixer console. Kit is supplied absolutely complete with wire, solder, heatsink compound and full constructional details.

Specifications:

Output Power:	100watts continuous (into 4ohms)
Frequency Response:	20Hz to 150kHz ± 3dB
Total Harmonic Distortion:	20Hz to 20kHz 0.2% typical (0.1 watt to 80 watts)
Damping Factor:	80 relative to 4ohm load
Input Sensitivity:	Approximately 1 volt (@ 3.9 Kohm)

See E.T. Audio Projects Book. also ETI December 1972
Cat. K-3020 .. .. $85.00

REVERBERBERBERB

ADD LIFE TO YOUR INSTRUMENT

15.50

REFER EA. MAY 1976

SPRING REVERB KIT

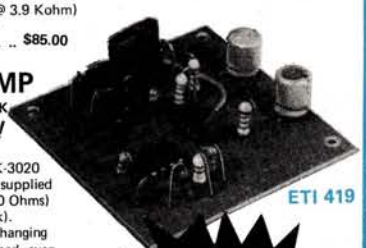
This is a new design as used in the Playmaster 760 Electronic organ is suitable for use in almost all electronic organs and guitars because of its compact size. All components mount on a small PCB. Uses one IC and two transistors kit is supplied with a new Dick Smith RE 4 reverb spring and instructions. Runs on 12V DC.
Cat. K-3424 .. .. $15.50

ALL OUR KITS USE TOP QUALITY COMPONENTS, WHERE POSSIBLE TO THE SPECS. GIVEN IN ARTICLES. OCCASIONALLY WE ARE FORCED TO SUBSTITUTE ALTERNATIVE COMPONENTS BECAUSE OF AVAILABILITY PROBLEMS, BUT THESE ARE CHECKED OUT WITH MAGAZINES CONCERNED.

2 – INPUT GUITAR PREAMP

REFER ETI SEPT. 1973 ALSO AUDIO PROJECTS BOOK

Adaptable to your requirements!



ETI 419

13·50
VALUE '+'

This kit is supplied in 2 input form to be used with our K-3020 (ETI 413) 100W guitar amp kit (see photo above). Kit is supplied with parts for one low impedance microphone input (600 Ohms) and one high impedance microphone or guitar input (47k).
Parts can be fitted on the PCB for two extra inputs. By changing a few parts you can change the inputs to the types you need, even to take a line input, crystal microphone or ceramic pickup. The circuit uses two IC's and has separate input mixing controls, bass, treble and volume controls. All components mount on a small PCB – knobs and power supply from 100W guitar amp are supplied. Power supply requirement if used separately +9V and -9V. Full instructions supplied.
Cat. K-3030 .. .. $13.50

GENERAL PURPOSE STEREO PRE-AMPLIFIER

REFER ETI JULY 1976

ONLY 7·50 EACH!

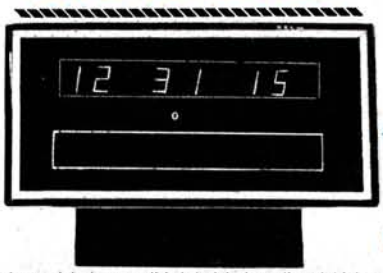
ETI 445

This amazing versatile unit can be built-up as a magnetic cartridge pre-amp for upgrading your stereo, a tape pre-amplifier, or an auxilary pre-amp with 40dB, 55dB or 80dB gain. It is extremely simple – uses one special IC and is ridiculously small: all parts fit on a PCB less than 2½in square. It does not need a special power supply; any resonable power supply from 10V to 40V will do. It has a fantastic frequency response – well beyond 20KHz. Full instructions supplied.
Cat. K-3427 .. .. $7.50

 LOOK AT THE AMAZING NEW SPEAKER KITS ON PAGES 18 & 19

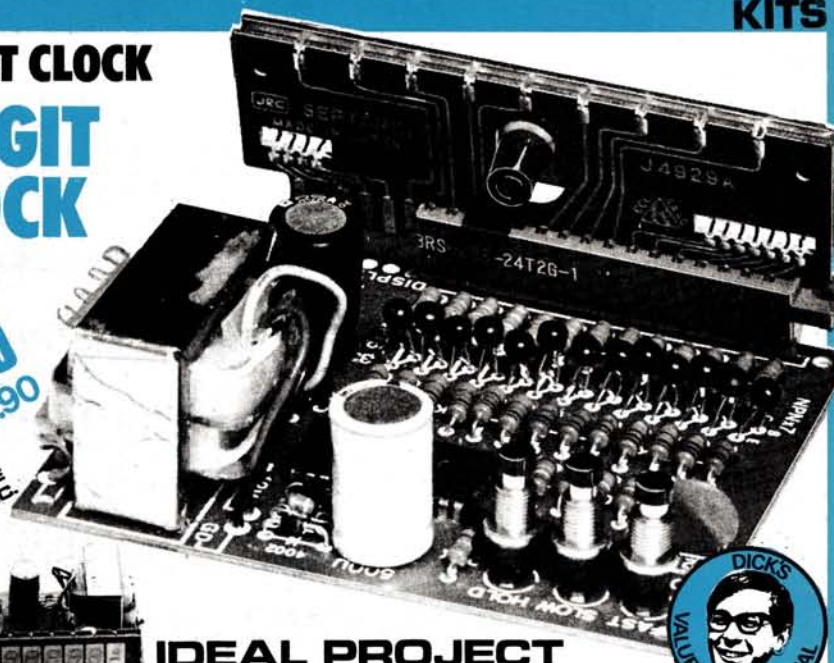
DICK SMITH SPECIAL HI-VOLT CLOCK

FANTASTIC 6 DIGIT CLOCK



SAVE $19·75 WAS $24.90

CAUTION HIGH VOLTAGE USES 240V A.C. POWER



We pioneered the low cost digital clock in Australia and this latest kit is based on our experience in selling over 3,500 digital clock kits. Yes, even a raw beginner can build this clock because we have simplified construction. Advanced constructors should be telling the time in under an hour! Just check these features:

- Well spaced components on silk-screenedand fully tinned board simplify construction.
- Full hours minutes AND SECONDS display using big (10mm) bright orange gas discharge display.
- Panel type display is pre-wired; simply plug into socket on P.C.B.
- Time is accurately derived from 50 Hz mains frequency 12/24 hour operation.
- Beaut plastic case also available, to give "bought-look" finish.
- Circuit uses MM5314 IC, 13 transistors, 5 diodes.
- Full instructions, circuit diagram etc. included.

Cat. K-3364 .. .. $19.75

Handsome plastic case to house above clock.

Cat. H-3192 .. .. $5.00

DICK'S VALUE PLUS SPECIAL

IDEAL PROJECT FOR BEGINNERS

CHEAPEST WITH SECONDS DISPLAY!

MA 1002 LED DISPLAY DIGITAL CLOCK KIT

NO R.F.I. (RADIO FREQUENCY INTERFERENCE) CAN BE USED NEAR AMATEUR, NOVICE OR C.B. EQUIPMENT AND BROADCAST BAND RADIO RECEIVERS

FANTASTIC DIRECT DRIVE

$19·75

This clock kit is really no kit at all – the work is already done for you! The PCB contains the chip, the display, and all the components needed for the clock. All you do is add the tranny and switches – presto! This kit contains the IC PCB, the switches, the transformer, data sheets, etc. Put it in a case and you've finished your clock.

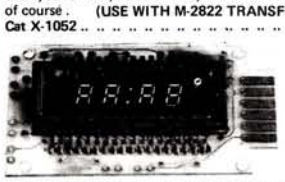
Cat. K-3434 .. .. $19.75

ALARM CAN EASILY BE ADDED SEE E.A. DEC 1976 DETAILS SUPPLIED IN KIT INSTRUCTIONS

MA1002 CLOCK MODULE $13·50

If you want the module only, we can supply that, too – dollars cheaper than you're likely to find it anywhere else! Brand new and guaranteed, of course. (USE WITH M-2822 TRANSFORMER)

Cat X-1052 .. .. $13.50



READY BUILT

easy to fit to your car

FULLY SELF CONTAINED 12V CLOCK MODULE

In some ways, similar to the above – it too has a clock IC, readout & electronics on a single PCB – but there the similarity ends! This one has an incredibly accurate crystal-derived timebase – operates from a 2.097152MHz rock! And it operates from 12V DC – so you can use it in the car, boat, plane – ideal navigation aid! Tiny size (75 x 45mm), comes with data sheets. Bright green gas discharge display is easy to see even in high ambient light. Value!

Cat. X-1049 .. .. $32.50

HIGH POWER STROBE

ETI 505

REFER: E.T.I. Aug. 1971, 25 TOP PROJECTS (vol.1&2), SIMPLE PROJECTS

EASIER TO CONSTRUCT

A must for parties, dances and disco's. This has been an enormously popular kit for some time. Now we have had a special printed circuit board made, which makes the unit ridiculously simple to build. Provision has been made on the PCB, so the extra parts for the optional second tube can be added simply and easily. Kit includes a new 7" photographic type reflector, which is specially modified so that perspex safety guard which is supplied can be easily fitted. Special new instructions are included.

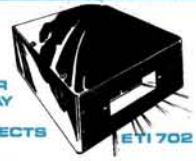
Kit is supplied with super long-life heavy duty storage capacitors. Timing control allows flash rate to be varied between one and twenty flashes per second.

Cat. K-3150 .. .. $27.95

AMAZING

RADAR INTRUDER ALARM

REFER E.T.I. MAY 1975 TOP PROJECTS Vol. 3



ETI 702

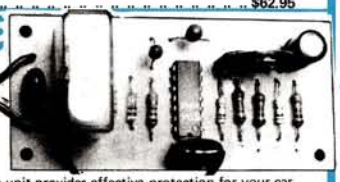
This sophisticated microwave unit will detect moving objects at ten metres range. Employs doppler principle. Uses Philips "Solid State" Gunn diode radar module, three I.C.'s and two transistors. Kit is supplied with full instructions, printed circuit board and heavy duty diecast case. As with all good burglar alarm equipment, it runs on 12V. D.C. Complete with nuts, bolts and wire. Has relay output with two sets of change-over contacts to trigger a master alarm or ring a separate siren. Radar beam even passes through timber walls.

Cat. K-3270 .. .. $62.95

SIMPLE

ETI 313

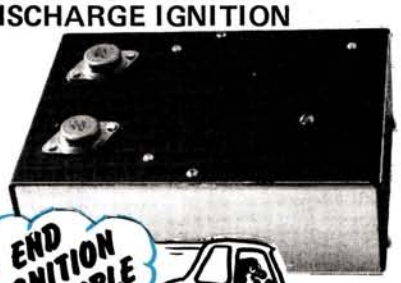
CAR ALARM



This simple, cheap unit provides effective protection for your car and its contents. The alarm is triggered by minute drops in battery voltage. e.g. when a door is opened and the light comes on. It can be armed with an external key switch (extra) or two concealed switches (extra). It is suitable for positive or negative earth. When triggered the unit will blast the horn at one-second intervals until you take action and reset it. *For details see E.T. Simple Projects Vol. 1. and E.T.I. November 1974.*

Cat. K-3250 .. .. $11.50

CAPACITOR DISCHARGE IGNITION



END IGNITION TROUBLE NOW

REFER E.A. JULY 1975

This has got to be the best value C.D.I. available. Your car will be easier to start – when hot or cold, your plugs & points will last longer – keeping your car in tune and using less petrol. When you add that up, it won't take long for the C.D.I. to pay for itself. This C.D.I. is also very reliable, a fact that almost a thousand happy customers can testify to. And look what you get :

- An exclusive heavy duty aluminium case for improved heatsinking and pre-drilled for easy assembly.
- A Pre-wound secondary for the inverter to save you hours of time.
- Special metal glaze resistors for reduced heat build up.
- Complete detailed instructions.
- Special Connector lugs for coil connections so you can disconnect or install in another car in minutes.
- Special transistor heatsink compound and insulating covers.

With all these special features even a beginner should be able to build it in one or two nights.

"Join the happy motorists ... build a C.D.I. now!"

Cat. K-3280 .. .. only $25.75

GET ONE NOW!

NEW TYPE

MK2 DRILL SPEED CONTROL REFER E.A. JULY 1976

Get the most from your electric drill. This unit enables your drill to be slowed down to the point where it can be used to drill large holes in metal or even be used as a screwdriver. New circuit gives good torque at very low speeds. Suitable for all 240V "universal" brush-type motors, up to 3 amps rating, such as drills, circular saws, jig saws, food mixers etc. Kit is supplied complete down to the last nut and bolt, even when mains cord/plug and output socket. Special assembly instruction sheet included. Easy to build – has rugged moulded case with special strong pre-punched marvi-plate steel front panel – a MUST for the home handyman!

Cat. K-3080 .. .. $11.50

THE ULTIMATE TV GAME

with sound & full digital scoring!

DICK'S VALUE PLUS SPECIAL

SEE ETI NOV 76

- 4 SELECTABLE GAMES
- AUTOMATIC SCORING
- SELECTABLE BAT SIZE
- SELECTABLE BALL SPEED
- SELECTABLE ANGLES
- AUTO OR MANUAL BALL SERVE
- REALISTIC SOUNDS (INBUILT SPEAKER)
- FULL VISUALLY DEFINED AREA
- FULL SEPARATE ARMCHAIR CONTROLS FOR EASE OF OPERATION
- FULL PROVISION FOR RIFLE SHOOTING TO BE ADDED
- CAN BE ADAPTED FOR COLOUR OPERATION

CONTROL UNIT ONLY— SEPARATE ARMCHAIR CONTROLS ARE SUPPLIED.

EASY TO BUILD WITH THE LATEST IC

YES THIS IS THE "ELECTRONICS TODAY" KIT NOT A BACKYARD DESIGN.

YES ACTUALLY KNOW WHAT YOU ARE GETTING.

SO SIMPLE: CONTAINS ONLY 3 IC's AND 3 TRANSISTORS!

KIT K-3432: $49.50 Amazing!

You know what it's like — the TV ratings are over and the programs are, to say the least, lousy. What to do? Easy — show your disgust by playing TV games with one of these fantastic toys. Toys? They're a positive past time! Apart from the enjoyment you'll get building the kit, you and your family, friends, relations, visitors and the dog will be able to spend hours together fascinated by the little ball and it's adventures on the small screen.

Cat. K-3432 .. .. **$49.50**

Now you can change the old line: Instead of 'Come up and see my etchings', try 'Come up and play TV tennis with me . . .'

DIGITAL LOGIC TRAINER

This intriguing little unit enables you to learn and understand the concepts of digital electronics and computers in a very short time. It gives you the practical experience which you just can't get from a text book. This extremely flexible little unit is also ideal for the logic system designer to test new configuations. The beginner will gain valuable experience while building the kit and using the parts, and this will help give a deeper understanding when he comes to use the trainer. The kit comes complete with low voltage mains power supply, in a rugged diecast aluminium case with a special brushed aluminium, screen-printed front escutcheon decal

- Has seventy-five special clip leads for front panel interconnections.
- Contains: 6x JK flip flops; 4x 2 input gates; 6x 3 input gates; 6 inverters; 3x2 input buffers; a 4-input Schmitt trigger.
- Features — Dual Range Clock Generator.
- Two Bi-Polar push buttons with bounce suppression, four level setting switches and six L.E.D. readout indicators.

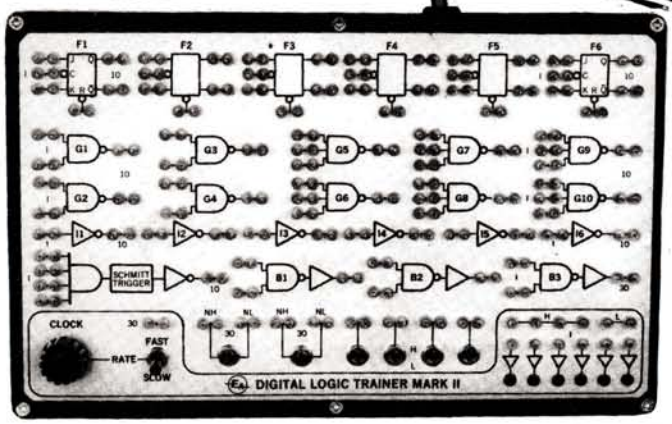
We have sold many of these kits to schools, universities and other technical institutions, so they must be good. Details of trainer in E.A. March 1973, Instructions for use in April 1973.
Full constructional details supplied.

Cat. K-3010 .. .. **$95.00**

SEE EA MAR 73

FANTASTIC VALUE

$95



NEW MICROCOMPUTER KIT

NEW

FEATURES

- 256 BYTE (WORDS) OF RAM MEMORY
- EASILY EXPANDABLE TO 1K. AT LOW COST
- 46 BASIC INSTRUCTIONS IN 3 ADDRESS MODES
- SIMPLE PROGRAMMING
- IDEAL INSTRUCTIONAL TEACHING AID
- COMPLETE WITH CONTROL SWITCHES, LEDS, AND ALL BASIC ELECTRONIC COMPONENTS.

SAVE $$$$

$105

SEE EA, MAY 77

ONLY 33% OF THE COST OF EDUC 8

INBUILT MAINS POWER SUPPLY

NEW MICROCOMPUTER KIT

Successor to EDUC-8 but potentially more powerful and only 33% of the cost. Designed by Dr. John Kennewell of Newcastle University.

Based on the National SCM/P C.P.U. it has 46 basic instructions, 3 powerful addressing modes. For less than $25.00, the mini-scamp can be expanded to 1k memory. With easily added ROM'S, it will interface to line terminal, keyboard control video terminal telewriter, tape punches, cassette memory, teletype etc.

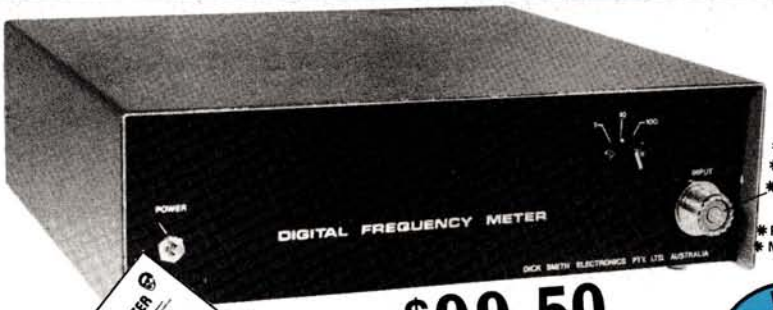
In its basic form it can be programmed in simple binary form, not complex machine language. No special code required. Ideal for instructing and teaching applications.

Fully self contained with easy instruction articles, easy to build. Put it together in one weekend.

Cat. K-3446 .. .. **$105.00**

SEE PAGE 60 FOR OTHER COMPONENTS IN OUR MICROCOMPUTER RANGE

'BUILD IT YOURSELF and SAVE



- FIBRE-GLASS SILK SCREENED P.C. BOARD
- PRE- PUNCHED CHASSIS
- 240V. or 12V. SUPPLY
- UHF SOCKET FOR CB & AMATEUR USE
- POLAROID FILTER
- MARVI-PLATE LID

7 DIGIT FREQUENCY METER

$99.50 20MHz

SIMILAR COMMERCIAL UNITS COST HUNDREDS OF DOLLARS MORE

All new 7 — digit 20MHz frequency meter from Electronics Australia. Ideal for CB — can be run from 12V DC mobile supply. Has built-in 240V mains power supply for use in the workshop. Has rugged pre-drilled case with black marvi-plate cover and special silk screen printed 'Polaroid' front panel (like the original). Our extra special DICK SMITH Kit has special printed circuit boards with silk-screened component overlay for simple "No hassle" assembly. Readouts are rugged light emitting diodes for long trouble-free service. Has a built-in quartz crystal time-base circuit for incredible accuracy. Kit is supplied for operation up to 20MHz — you only need to add one IC at any time to convert your 20MHz kit to 200MHz. Other parts included in 20MHz kit. Full instructions supplied.

Cat. K-3436 .. .. 20MHz $99.50
200MHz for $116.00

DICK'S VALUE PLUS SPECIAL

All you do is add a 95H90 IC (Cat. Z-5360) at just $16.50 and you turn your 20MHz DFM into a 200MHz DFM. No other parts to buy. For a total of just $116.00 you have a 7 digit 200MHz frequency meter.

SEE ELECTRONICS AUSTRALIA MARCH ISSUE 1977

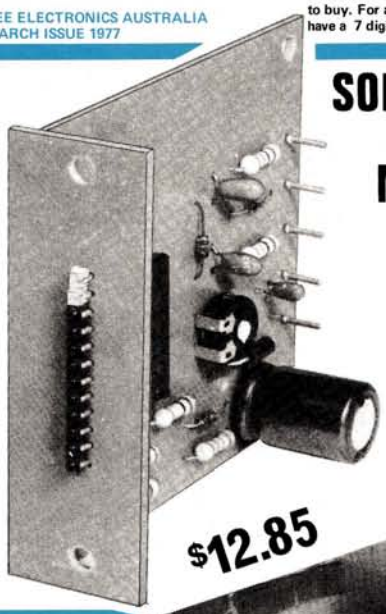
SIMPLE TO BUILD

DESIGNED BY LEO SIMPSON OF ELECTRONICS AUSTRALIA

SOLID STATE V.U. METER

EASY TO READ

ACCURATE PEAK READING



AMPLIFIERS

RECORDERS

LINE LEVEL

MIXERS

$12.85

LED LEVEL METER

E.A. "BAR OF LIGHT" LED LEVEL METER

Gives a striking visual display of relative power output from your amplifier. One unit will display the sum of the peak channel output voltages (power), or use two for separate stereo readouts. Readout power level is displayed by 10 green light emitting diodes, one yellow indicating maximum power and red for overload. A worthwhile addition to any stereo amplifier — (simply connect across the speaker leads) or by adding a few components, it can be used as a V.U. meter to replace older mechanical types. The circuit is fully solid-state, all components mount on a small printed circuit board with the display conveniently attached at right-angles for easy mounting of the finished unit. Simple power supply requirements 10V-16V AC or DC at 50mA. Instructions are supplied.

Cat. K-3370 .. .. $12.85

See E.A. June 1976

SIMPLE BUT RELIABLE DESIGN

See E.T.I. June 1971 or Top Projects Vol. 1

AUDIO SIGNAL GENERATOR

$35.00

A reliable high quality unit which provides a fully variable output from 15Hz to 150 kHz in four switched ranges. The circuit uses a Wein Bridge and is based on a well tested Mullard design. It uses seven discrete transistors and one thermistor to ensure constant amplitude output. Output variable in three switched scales of up to 10mV., 100mV., and 1 Volt. RMS Sine-wave or up to 2V P.E.P. square wave. This unit is mains powered and comes in an attractive A.T.C. instrument case with a sloping anodised aluminium panel. Ideal for use in the home or in the workshop. As built by Tech. students. Simple construction on single printed circuit board. Supplied complete with instructions.

For further details see E.T. Audio Projects Vol 1.

Cat. K-3040 .. .. $35.00

TESTS

DIODES

$15.95

TRANSISTORS

FETS

UJTS

PUTS

TRANSISTOR TESTER

See E.A. August 1971 or E.A. Projects & Circuits

SPEEDS UP FAULT FINDING AND SERVICE

Not just another Transistor Tester! This one tests transistors, diodes, F.E.T.'s, and even S.C.R.'s and P.U.T.'s. This practical low-cost test instrument is simple enough to be built by a beginner and then provide him with a valuable piece of test equipment. You can get experience in building, then use it to learn about the operation of semiconductors, or use it for more serious checking and matching of device parameters. Ideal for the beginner and serviceman alike, or in schools. Battery operated and supplied with one of our new 50mm Meters in a deluxe "Zippy" case.

S-3006 9V. Battery Extra.

Cat. K-3050 .. .. $15.95

See E.T.I. August 1975 or Top Projects Vol. 3

CROSSHATCH DOT GENERATOR

$21.50

Get the very best picture from your colour T.V. This inexpensive unit makes convergence errors (usually coloured shadows or halos) immediately apparent. Extremely simple to use — simply connect to the aerial terminals and flick a switch. Then adjust convergence controls for optimum results. Extremely portable — runs on one small 9V. battery. All parts supplied, including special screen-printed front panel, attractive instrument case and full instructions. A very popular kit — Compare our price! S-3006 9V. Battery Extra.

Cat. K-3290 .. .. only $21.50

GET OUT OF THE SNOW & NOISE

$29.95

See E.T.I. December 1974 or Simple Projects Vol. 1

TV MASTHEAD AMPLIFIER

Ideal for colour T.V., boosts weak signals in poor signal areas so you get good clear colour pictures. When you spend $1000 on a new colour set, why be disappointed by a poor quality picture. Overcomes the problems of older wide-band amplifiers by using a new-generation hybrid I.C. from Philips, the colour T.V. experts. Complete with a mains power supply unit so you can build it and forget about it, no batteries to replace.

- No extra wires — you only need the normal 75Ω coax from aerial/to power supply unit/to set.
- Extremely simple with only a handful of parts.
- All coax plugs supplied.
- 75Ω system, so you will need baluns for 300Ω B&W.
- Coax extra — as required.
- Instructions included.

Cat. K-3230 .. .. (240v. OPERATED.) .. $29.95

REVIEWED BY
E.A. APRIL 1976

EXCLUSIVE TO DICK SMITH SAVE $10.00

$89.50

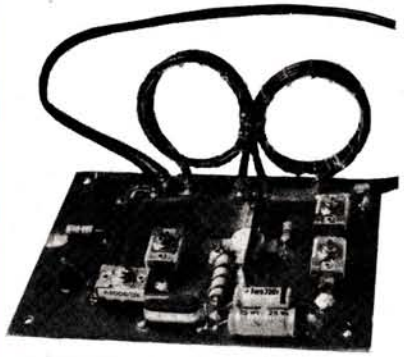
NOVICE TRANSVERTER KIT

This project was specially designed for us by one of Australia's leading R.F. engineers. It is the cheapest way for a novice to get going on 80M. Put in any signal on 27 MHz (AM/FM/SSB) and it is automatically transverted down to 80M. Receiver section transverts 80M signals back to 27MHz. Maximum power output is 10W AM, 30W PEP on SSB from an input as small as 100mW to 3W. Input and output are 50 ohms.

This project is surprisingly simple to build – about 4 hours work. We have included a fibreglass board. Circuit is fully reverse voltage protected and operates from 13.8V d.c. (max) which is ideal for your mobiles. Supplied with 23.570 MHz crystal which allows the following transversions:

3.535 MHz	27.105 MHz	Ch. 12
3.545 MHz	27.115 MHz	13
3.555 MHz	27.125 MHz	14
3.565 MHz	27.135 MHz	15

Cat. K-3134 .. .. **$89.50**



45 WATT 2 M AMPLIFIER KIT

$27.50

SIMPLE & RELIABLE DESIGN

NOW UP TO 45 WATTS OUTPUT

Yes, a fantastic 2M r.f. amplifier kit of the simplest possible design. You can build in under an hour! Uses the 2N6084 45W. transistor. Requires 8-12W drive to give 35–45W output from 13.8V supply to (suit your Mobiles!) Fully solid state switching, double sided fibreglass PCB. Everthing supplied including explicit instructions – there's even provision on the board to wire in a VSWR meter (not supplied)

Cat. K-3132 .. .. **$27.50**

CB POWER SUPPLY KIT

$27.50

13.8 Volts @ 4Amps Surge
IDEAL FOR SSB UNITS

FANTASTIC VALUE
"DO–IT–YOURSELF"
DICK SMITH CB POWER SUPPLY KIT

Ideal to run your CB rig as a base station. Rugged design gives 13.8V. @ 2A. continuous or up to 4A. surge. Can be made adjustable from 10-14V. by adding optional pot. control. Regulated circuit gives less than 10mV noise. Unit is housed in a robust instrument case. Uses reliable time proven circuit. Complete to the last nut, bolt and PCB. Full instructions included.

Cat. K-3448 .. .. **$27.50**

DSE exclusive

30W–80M AMPLIFIER

"80 METER LINEAR FOR NOVICE LICENSE"

As used in our highly successful DSE Transverter this linear amplifier will meet requirements for the novice license and will deliver up to 10 watts on the AM or 30 W on SSB. Unit constructed on a rugged fibre-glass printed ciruit board.

The circuit is fully solid state and uses three 2N5590 transistors. 50 watts may be obtained by replacing the final two transistors with 2N5591's. This amplifier is compact, using toroidal transformers. It is an ideal mobile unit, as it operates from 13.8V. average current 3 amps. This unit comes with full instructions.

Cat. K-3133 .. .. **$34.95**

SEE E.A. SEPT 76 FOR EXCITER CIRCUIT

SPECIAL KIT PARTS

PROJECT PRINTED CIRCUIT BOARDS

CAT.	REF.	PROJECT	PRICE
		"ELECTRONICS AUSTRALIA"	
H-8165	73TI	E.A. Digital logic trainer MRK2	2.75
H-8215	75CD7 PCB	E.A. July 1975 Capacitor Discharge ignition	2.00
H-8240	75C19 PCB	E. A. Quartz Crystal Clockdrive (50Hz)	1.25
H-8275	75LII	Playmaster Speaker Protector	1.75
H-8295	76G3	Leds & Ladders Game	1.75
H-8300	76A3	2 Watt Mini-Audio AMP	1.75
H-8302	76SA4	Playmaster 25/25 and 40/40 Fibre-glass board include printed overlay	5.25
H-8306	76AO3	E.A. Mini-Gen Audio Generator	2.25
H-8308	76VG5	E.A. Video-Ball Game, special Tin Plated and screen printed	2.00
H-8310	76/M5	RF Modulator for E.A. Video Ball Game	1.00
H-8312	76S3	Touch Switch	2.00
H-8314	76R4	E.A. Reverb Unit	$2.00
H-8315	76LM5	E.A. Led Level Meter	2.00
H-8316	76S7	650 MHz Prescaler for Frequency Counter	2.50
H-8318	76PC9	Musicolor MRK3	3.95
H-8322	77F1 A&B	Special Fibreglass for E.A. digit frequency counter	4.75
H-8324	77UPS	E.A. Miniscamp Computer	8.50
		"ELECTRONICS TODAY INTERNATIONAL"	
H-8504	ETI 004	ETI Variwiper	1.25
H-8506	ETI 006	High quality Audio Generator	2.25
H-8524	ETI 111	Power supply	2.00
H-8548	ETI 313	Simple Car Alarm	1.75
H-8550	ETI 314	LM 380 Auto AMP 12 Volt	1.50
H-8552	ETI 413	ETI 100Watt RMS Guitar AMP	2.50
H-8554	ETI 419	2 or 4 input Guitar PREAMP/ Tone Control	1.75
H-8556	ETI 426	Rumble Filter	1.75
H-8560	ETI 429	Simple LM380 Stereo AMP	2.75
H-8578	ETI 701	TV Masthead amplifier	1.50
H-8580	ETI 702	Doppler Radar Alarm	1.75
H-8582	ETI 704	Crosshatch and Dot Generator	2.00
H-8591	ETI 480	50W/100W Power AMP (Fibreglass)	2.50
H-8592	ETI 708	Active Filter	1.75
H-8594	ETI 539	Touch Switch	1.75
H-8600	ETI 130	Temperature Meter	1.50
H-8603	ETI 445	General purpose Stereo Preamp (LM382)	1.75
H-8604	ETI 602	Special heavy duty tin plated fibreglass PCB with silk screen overlay for ETI 602 Mini-Organ	5.60
H-8605	ETI 804	Video Game with Scoring (AY-3-8500)	3.50
H-8606	ETI 480 PS	Power supply PCB for ETI 480 50W x 2 or 100W x 1	2.25
		"DICK SMITH" *EXCLUSIVE FIBRE-GLASS QUALITY*	
H-8894	76EX10	Exciter (frontend) for 3.5MHz Novice Transmitter.	6.00
H-8896		DSE 30Watt 80 Meter Novice Linear AMP	6.00
H-8898		27MHz to 80 Meter converter for DSE Transverter	6.80
H-8900		RF 45 2 Meter 45 Watt Booster AMP DSE double sided	6.50

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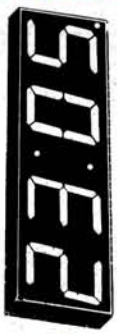


KIT PARTS

CAT.	COMPONENT	PRICE
K-6016	New Strobe Reflector	4.50
R-2855	6.5uf 250V Strobe Capacitor (2 per unit)	3.75
K-6001	Eylet Connector assembly for CDI (need 2 per unit)	25c
K-6003	Special 0.47uf Poly capacitor for CDI (need 2 per unit)	80c
K-6011	Clip leads for Logic Trainer (pack of 25)	9.50
K-6014	FTI Feed-thru for logic trainer (pack of 250)	12.75
H-3192	Perspex case for Hi-Volt clock kit	5.00
M-2820	Transformer for Hi-Volt clock (S-3890 Display) PCB Mount (180V/15V)	5.75
M-2822	Transformer for 1002 clock module	4.25
S-3890	J4929 A 8 Digit Hi-Volt display panel (for Hi-Volt clock kit)	6.75
K-6036	Ferrite rod for Playmaster 25/25 & 40/40 (36mm, F14)	50c
K-6026	4.433619MHz Xtal for PAL Sub-carrier	4.75
K-6031	3.579,545MHz Xtal for new E.A. Frequency counter	6.75
K-6032	23.57MHz Xtal for DSE 11 to 80 metre transverter	9.75
H-3113	Simulated Walnut Sleeve for Playmaster 25/25 or 40/40	7.50
M-0148	C-Core Transformer for Playmaster 40/40	26.50
H-3161	Simulated Walnut Sleeve for Musicolour 3	6.50

HIGH QUALITY FRONT PANELS

CAT.	PROJECT	PRICE
H-3106	E.A. Digital Logic Trainer MK2	9.00
H-3112	Deluxe Playmaster 25/25 or 40/40 exclusive Gold anodising just like the original	8.90
H-3162	Deluxe DSE Musicolor 3 front panel anodised Gold	5.90
H-3180	Transistor tester front panel (E.A.)	2.00

PRECISION METAL WORK FOR PROJECTS

CAT.	PROJECT	PRICE
H-3110	Playmaster 25/25or 40/40 Metal work (suits either type) Complete with black grained type steel cover	11.50
H-3120	ETI 413 100W Guitar AMP – heavy duty folded and drilled aluminium case complete with heatsinks	12.50
H-3160	DSE Musicolor 3 Metalwork (modified front panel layout) complete with black steel cover	10.90

INCREDIBLE CT-7001 CLOCK/CALENDAR CHIP

We have just received a huge shipment of these versatile chips.

It would be a waste of this chip's incredible capabilities if we offered it to you as a clock kit. So we are supplying just the chip (while stocks last, that is) and you make up your own mind what you require from it: you may wish to make it into a simple clock, or make a master time switch, etc. The possibilities seem endless. This makes it an ideal project chip for the electronics experimenter and enthusiast.

Ask for the **free** 8 page comprehensive data & circuit manual that gives you all parameters & circuits.

Cat. Z-6821 .. .. **$8.90**

FEATURES:-

- 12/24 hour clock and 24 hour alarm
- 28/30/31 day calendar
- 6 digit display (hr, mins & secs)
- Depletion mode MOS/LSI
- Segment and digit blanking
- Easy interface with Sperry tubes
- Direct drive to LED segments
- Direct drive to luminescent anode tubes
- 7 segment or BCD outputs available
- Segment & digit outputs can be wire OR'D to share calculator display.
- 60 second timer
- Snooze alarm
- Clock radio features
- On-chip 60Hz back-up
- Easily settable counters

• HUGE 8 PAGE DATA BOOK

$8.90

EDUCATIONAL KITS — GENERAL PURPOSE AMPS

UNIVERSAL PREAMPLIFIER

$9.50

NEW IMPORT

A low noise high gain pre-amplifier suitable for use as a playback pre-amplifier on tape heads of tape recorders. Could also be used as a pre-amp on high impedance microphones, It's small in size – could be mounted on existing equipment. Ready to go, just connect power & input & output leads.

Specifications:

Frequency response:	50Hz – 15kHz ±3dB
Equalization:	NAB
Voltage gain @ 1kHz:	49dB
Total Harmonic Dist:	0.2%
Input impedance:	350k ohms
Output impedance:	5k ohms
Semiconductors:	4 transistors
Supply voltage:	9 – 20V (1mA @ 10V)
Board Size:	49mm x 46mm (max comp height 20mm)

Cat. F-4158 .. .. **$9.50**

MICROPHONE PREAMPLIFIER

$8.50

NEW MODEL

A low noise microphone preamplifier suitable for use with most high impedance mics. Can also be used with low impedance mics using our M–0701 or M-0700 line transformers. It comes complete with volume control and a quality aluminium knob.

Specifications:

Frequency response:	20Hz – 20kHz ±1dB
Voltage gain:	44dB
Input impedance:	10 kilohms
Semiconductors:	2 transistors
Output:	2 (mixed, ready for stereo amp input)
Supply voltage:	9 – 25V (1.35mA @ 10V)
Board size:	50mm x 40mm (max comp height 34mm)

Cat. F-4154 .. .. **$8.50**

STEREO PREAMPLIFIER
FOR MAGNETIC CARTRIDGES

$9.75

NEW IMPORT

Complete ready-to-use RIAA pre-amp – simply connect power & input & output leads. Ideal for converting your present ceramic or crystal player to a better quality magnetic cartridge.

Specifications:

Frequency response:	15Hz – 15kHz ±2dB
Equalization:	RIAA
Voltage gain:	35dB
Total Harmonic Dist:	0.1%
Input impedance:	47k ohms
Output voltage:	4V max
Semiconductors:	4 transistors
Supply voltage:	9 – 20V (1mA @ 10V)
Board Size:	95mm x 40mm(max height 19mm)

Cat. F-4152 .. .. **$9.75**

5 WATT UNIVERSAL AUDIO AMPLIFIER

A 4 transistor amplifier with multi-tapped output transformer. Ideal for radios, phono's, intercoms, transceiver modulators etc.

Specifications:

Circuit:	4 transistor push-pull output.
Output Power:	5W. Max.
Frequency Response:	50 Hz to 15 kHz.
Input:	20 mV for 3W. output
Input Impedance:	About 50 k.ohm.
Output Impedance:	4, 8 & 16 ohm.
Power Source:	9V. D.C.
Current:	20 mA., no signal.
Dimension:	75 x 55 x 30mm.
Weight:	120g.

Cat. F-4105 .. .. **$9.90**

$9.90 FANTASTIC VALUE

$17.50

15 WATT UNIVERSAL AUDIO AMPLIFIER

Solid state amplifier with multi-tapped output transformer. Suitable for P.A. use, power intercom, megaphone, transmitter modulator, etc. This unit is ideal for automobile use because of its power requirements, 12–15V. D.C.

Specifications:

Circuit:	4 Silicon Transistors
Ground:	Neg.
Output Power:	15W. Max.
Input Impedance:	About 15Kohm.
Input:	10mV. for rated output
Frequency Response:	200 Hz to 10 KHz
Output Impedance:	4, 8 & 16 ohm.
Power Supply:	12–15V. D.C.
Current:	1.8A for maximum output
Dimension:	100 x 60 x 35 mm.
Weight:	175 g.

Cat. F-4115 .. .. **$17.50**

READY 'TO GO' NO ASSEMBLY

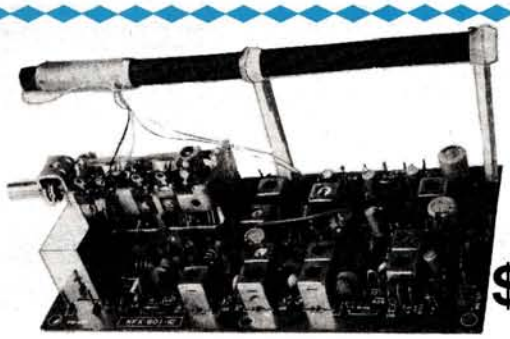
AM/FM MULTIPLEX TUNER

Here is the greatest tuner value you will ever see. Specially produced for Australia with 50 micro seconds F.M. de-emphasis (not the 75 micro seconds used overseas). Has built in ferrite antenna for A.M. reception over the broadcast band. Beautiful airspaced AM/FM tuning gang, covers full Australian AM/FM bandwidth.

FM Sensitivity:	3.5 micro volts.
IF Rejection:	80 dB.
Image Rejection:	52 dB.
Stereo Separation:	25 dB.

Has provision for tuning meter and terminals for FM.stereo indicator light. Operates from 12V @ 22 mA. Fully assembled and tested at a cost less than the value of the parts. Highly recommended at our fantastic price. (See E.A. Aug. 1975 for review).

Cat. F-4615 .. .. **$37.50**



HIGH QUALITY

$37.50

150 IN 1 EXPERIMENTER'S KIT

TEACH YOURSELF ELECTRONICS

$39.95

A magnificent educational kit for both the inexperienced and advanced experimenter. Beautifully detailed manual describes in step by step instructions, how to make up to 150 different electronic projects. No soldering is required and the complete kit operates off harmless low voltage battery power. An enlarged transparent I.C. (integrated circuit) clearly shows the electronic layout of these most complex space age devices. As no soldering is required (connections are by spring terminals) all components can be re-used time and time again. The kit includes the following electronic devices: Cadmium-sulphide cell, solar cell, micro-ammeter, radio tuner, potentiometer, relay, I.C., speaker, signal light, microphone, earpiece, morse key, slide switch, transformer, etc. The separate projects are too numerous to list however, it has been said that the only thing that cannot be made is a television set! Supplied in a sturdy compact wooden case. Dimensions 406 x 216 x 89 mm. Batteries required: 1 x 9 Volt, 2 x 1.5 Volt.

Cat. K-2030 .. .. **$39.95**

Several times each year, Dick & his staff travel the world for new products. We like to think (as we are enthusiasts too!) that we stock just about everything the typical electronic hobbyist needs.

But we are not perfect by any means, (!) and there is always something obvious left out of our range. (Last year we left out those handy nylon cord-clamp grommets – very silly. They're there this year – see cat. page 48)

So if you have any suggestions for items you would like to see us stock, please tell us! Just mention it on your mail order or over the counter to the salesman. It will filter through to the right person here. In this way you can help us serve YOU better.

STEREO HEADPHONE KIT

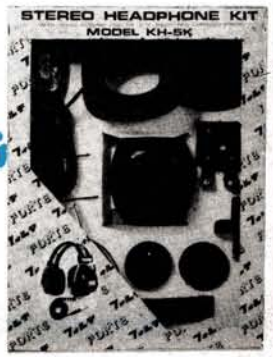
This kit is presented in an attractive window front box. Over 30 components make up the set. It is complete with individual volume controls and a coiled flexible cord. Features include an adjustable headband for perfect fit, soft comfortable ear muffs, full frequency response 8 ohm transducers and a *free adaptor plug*, to allow you to hear mono from your favorite cassette player. A huge detailed assembly instruction sheet with photographs accompany the kit. Why not save yourself dollars by doing-it-yourself.

Cat. K-1015 .. .. **$12.50**

BUILD YOURSELF AND SAVE

$12.50

GREAT KIT FOR THE YOUNG HI-FI BUFF



DICK SMITH MULTIMETERS

SPECIALLY DESIGNED TO DICK SMITH SPECIFICATIONS FOR AUSTRALIAN CONDITIONS

COMBINED MULTIMETER & TRANSISTOR TESTER

NOW WITH ADDED FUSE PROTECTION

WE HAVE SOLD THOUSANDS OF THESE!

DICK SMITH Q-1136 100 k ohms/Volt

Q·1136

$49·50

34 RANGES: DCV 0.5, 2.5, 10, 50, 250, 1000V. AC Current 10A.
ACV 5, 10, 50, 250, 1000V.
DC Current, 10uA, 25uA, 0.5mA, 5mA, 50mA,500mA,10A.
RESISTANCE, 20, 200, 20k, 50M ohms (centre scale)
Decibel, −10 to +62dB Transistor, h_{FE} 0−500, I_{CO} 0−50uA
Still the best value all purpose multimeter available!
34 ranges including, transistor tester and dB levels.
Ultrasensitive and supremely accurate.
Movement, protection and rugged construction make it ideal for field work, lab. and student work.
Simple operating through single, large positive click lock switch, reversal switch, transistor tester and large (127 mm) scale printed in four colours make it ideal for students as well as techs and engineers.
Test leads with banana plugs supplied as well as batteries and operations manual.
Cat. Q-1136.. .. .. $49.50

VALUE LEADER!

METER CASE

FITS Q-1136 AND Q-1200
More than just protection.
Keeps your leads and probes tidy, storage pocket for notes, circuits and manuals.
Shoulder strap to assist you in field work.
And it looks terrific while protecting your meter —
Cat. Q-1137.. .. .. $10.00

DICK SMITH Q-1024 MULTITESTER

$22·50

20 k ohm/Volt DC
20 Ranges plus dB Scale (0 - 1 ohm scale makes meter very useful for fault finding in electric motors)
DCV; 0.1,0.5,2.5,10,50,250,1000V. ACV;2.5,10,50,250,1000V. DCA;0.05,2.5,25,500mA. 5k,50k,500k,5Mohms.
Large easy to read mirror backed scale.
Big Banana plug connections for strong sure contact (Not "PIN" type which are easy to break)
DIODE PROTECTED MOVEMENT-SUPPLIED COMPLETE WITH BATTERIES, TEST LEADS, PROBES AND INSTRUCTIONS
Cat. Q-1024.. .. .. $22.50

OUR MOST POPULAR METER

DICK'S VALUE PLUS SPECIAL

HI-VOLT PROBE

Increase the usefulness of your multimeter . . .
Hi-volt test probe — measures up to 50kV with this 980Megohm resistor probe. Suitable for checking EHT on any television set commercially available in Australia today — colour or black & white!
Ideal for use with your Q-1024 multimeter.
Cat. Q-1025 .. .. **$17.50**

VALUE

DRAWS MINUTE CURRENT EVEN WHEN TESTING HIGH IMPEDANCE CIRCUITS.

NEW DICK SMITH FET METER

LOOK AT THESE FEATURES:

ALL NEW FANTASTIC FET!

$67·50

10 Meg Ohm input impedance on DC ranges
1 Meg ohm input impedance on AC ranges.
On/off switch
Diode protection
Polarity reversing switch
Mirror scale
Zero centre range for solid state servicing
17 Precision multiplier resistors.

DCV;250mV,1V,2.5V,10V,250V,1000V.
DC Current; 25uA,2.5mA,25mA,250mA.
ACV;2.5V,10V,50V,250V,1000V.
Resistance; 0−5k,50k,500k,5M,500M ohms.
Decibels; −20 to +62dB.

9 volt and 1.5 volt batteries, probes and leads provided.
BIG BANANA SOCKETS FOR SURER CONTACTS AND PIN BREAKAGE PROTECTION
Cat. Q-1200.. .. ..$67.50

HIGH SENSITIVITY!

BRAND NEW!
WOW—LOOK AT THIS!
A truly professional multimeter for less than $40.00!!!!

100 k ohms/Volt

25 Ranges—
DCV;0.5,2.5,10,50,250,1000V.
ACV;5,25,100,250,1000V.
DC Current;10uA,2.5mA, 25mA,250mA,10A.
Res. x1,x100,x1k,x10k.
dB − 10 to +62 5 Scales
Polarity reversing switch — great convenience!
Banana sockets— large size prevents breakage. Diode protected meter. 2 batteries— 1.5V & 9V. This is a superior quality measuring instrument of ALL NEW DESIGN!
Cat. Q-1100.. .. **$39·75**

NEW! NEW!

TWO BRAND NEW METERS – SPECIALLY SELECTED BY DICK SMITH ONLY WEEKS AGO (FEB/MARCH) ON HIS INTERNATIONAL BUYING TRIP.

NEW IMPORT $8.90 VALUE

VEST POCKET MULTITESTER

FOR BEGINNERS AND HANDYMEN!
Is there power on that power point? Is that wire broken under the insulation? Are those points breaking properly? You don't need a sophisticated meter to tell you these things – you need one that's SIMPLE, RUGGED AND RELIABLE.

ONE FOR THE GLOVE BOX AND ONE FOR THE KITCHEN DRAWER

DC Volts 15V – 1000V, AC Volts 15V – 1000V, DC Current 150mA Resistance 0 – 100 ohm, 0 – 100k ohm. IK Ohm/Volt Sensitivity
Cat. Q-1010 .. .. ONLY $8.90

FANTASTIC $13.50 NEW IMPORT

20 k ohm/Volt MULTITESTER

15 RANGES

DC Volts 5V, 25V, 125V, 500V, 2.5kV,
AC Volts 10V, 50V, 250V, 1000V,
DC Current 50uA to 250mA
Resistance R x 10, R x 1K
Volume Level -20 to + 22dB

HIGH SENSITIVITY 'A BEAUTY!'

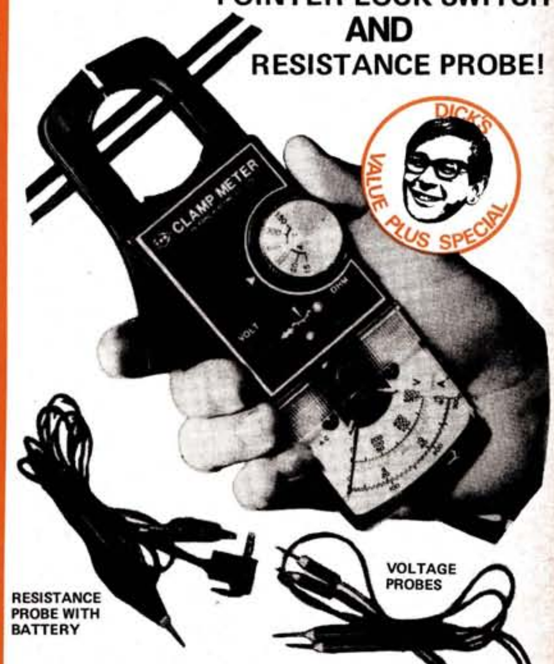
Has central rotary selector switch for simple operation and large easy to read scale.
Complete with battery, test leads and instruction manual.
Ideal for keen hobbyists and sparkies.
Cat. Q-1020 .. .. $13.50

ADVANCED MULTIMETER

VT-108 FET. TYPE
VOLT – OHM METER
FOR PROFESSIONAL EYES ONLY!
"FOR THE BOFFINS"
What other meter do you know of that is fully portable, measures from 0.5V to 1500V DC in 8 ranges at 11M Ohm/VOLT, 1.5V to 1500 RMS! in 7 ranges at 1 M Ohm/VOLT, – 15 to +66 dBm, with a frequency response of up to 5 MHz, 0.1 Ohm to 1000M Ohm in 7 ranges WITH A 30 SEC. MEMORY, AND COSTS ONLY $124.20?
Cat. Q-1210.. .. .. $124.20

CLAMP METER

WITH EXCLUSIVE!
POINTER LOCK SWITCH
AND
RESISTANCE PROBE!



3 AC volt scales: 150V, 300V, 600V
3 AC current scales: 15A, 60A, 300A
Resistance: 5k ohms (midscale 200 ohms)

This instrument is versatile, beautifully constructed and simple to use. The exclusive pointer lock switch enables you to take a measurement in a dark or concealed place; lock the pointer and withdraw the meter to make the reading! Accessories supplied: Test leads, including OHM probe (with UM-3 battery & 0.2A fuse included) Instruction manual and carrying case. All this for the unbelievable price
Cat. Q-1470 .. .. NEW IMPORT $47.50

ONLY ONE DIGITAL MULTIMETER? sinclair DM2

Fully-portable, 3½ digit, five function Multimeter

SAVE $30 on last year's price

SCOOP PURCHASE $145

Yes! After years of assessing digital multimeters, Dick has decided that the SINCLAIR DM2 is by far and away the best value available in the world.
For this reason he has consolidated his tremendous buying power into a massive SCOOP PURCHASE of the SINCLAIR DM2 to bring you an INCREDIBLE $30 SAVING ON LAST YEAR'S PRICE.

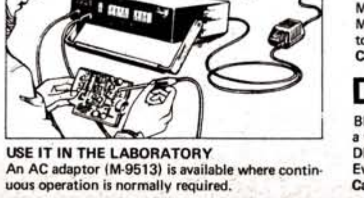
THE SINCLAIR DM2
Fully-portable, 3½ digit, five function Multimeter.

MOS/LSI circuitry, 4 DC Voltage Ranges (1-1000), 4 AC Voltage Ranges (1-500), 4DC Current Ranges (1mA-1A), 4 AC Current Ranges (1mA-1A), 4 Resistance Ranges (1k-1M). Input Impedance (both AC&DC Volts) 10 Mohms with a fantastic 100 Mohms on the 1VDC range. Frequency response on 1VAC 20Hz-3kHz, all other AC ranges 20Hz-1kHz. Up to 60 hrs operation on internal battery.

Features: Big bright 8 mm LED display
Auto polarity and out of range indication
High stability, high accuracy.
5 functions in 22 Ranges
Rugged construction
Simple operation with only a single pair of terminals.
You can virtually analyse a circuit by placing your probes and simply pushing buttons.
BATTERY EXTRA. Page 79 Cat. S-3205
Cat. Q-1450.. .. .. $145.00

SO VERSATILE YOU CAN MEASURE AC CURRENT!

USE IT ON THE MOVE
The optional rugged carrying case keeps the DM2 ready for use.



USE IT IN THE LABORATORY
An AC adaptor (M-9513) is available where continuous operation is normally required.

and NOW! AC Adaptor

Made especially for Dick Smith for the SINCLAIR DM2 Multimeter. 8.5Volts DC @ 100mA. Compact and ready to use with your DM2 at this really low price.
Cat. M-9513 .. .. $10.75

DM2 Carrying Case

Black leather-look case with shoulder or neck strap which makes it a very useful aid for hands free field readings. Protects your valuable DM2 as well.
Every professional will want one!
Cat. Q-1451.. .. .. $8.00

SIGNAL GENERATORS

AUDIO SIGNAL GENERATORS

TRIO AG-202A $148.35

The AG-202 is a Wien bridge CR-type, sine and square wave audio signal generator. All solid state in construction, it produces excellent sine waves instantly with a minimum of distortion and square waves with fast rise time

Frequency ranges:	20 Hz to 200 kHz in 4 ranges
Frequency accuracy:	±(3%)
Sine wave characteristics:	
Output voltage:	10 V r.m.s. ± 10%
Distortion:	0.5% at 50Hz to 100 kHz 1% at 20 Hz to 200 kHz
Square wave characteristics:	
Output voltage:	10 Vp-p
Overshoot:	3%
Sag:	10% at 20 Hz
Output impedance:	600 Ω
Output attenuation:	High/Low (40dB) & variable control
Drift with line voltage:	(±10% variation) Freq: ±0.5% Level: ±0.5 dB
External synchronization:	
Synchronization voltage:	1%/V approx.
Max. input voltage:	3 V r.m.s.
Input impedance:	10 kΩ

Cat. Q-1220 .. .. **$148.35**

HIGH QUALITY **$85**

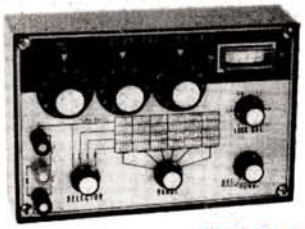
MODEL TE22D DELUXE

A factory calibrated and tested unit of high accuracy and stability with both sine and square wave output.

SPECIFICATIONS:

Frequency Range:	Sine Wave – 20 to 200 kHz in 4 bands Square Wave -20Hz- 30 kHz
Frequency Response:	±1½ dB
Output Impedance:	1 Kohm
Frequency Accuracy:	±5%
Output Voltage:	Sine wave 7 volts (RMS) Square wave 7 volts (P-P)
Distortion:	Less than 2%
Tube Complement:	6BM8, 12AT7, 6x4
Power Supply:	AC 50/60 Hz 220-240 volts
Dimensions:	215 x 170 x 140 **Weight:** 3 kgs

Cat. Q-1310 .. .. **$85.00**



$74.50

AC BRIDGE

You'll wonder how you managed without it.

An essential piece of test gear measuring Resistance, Inductance, Capacitance and Turns Ratio. Easy to operate from 9V battery. Built in 1 KHz oscillator and high sensitivity balance indicator. Uses switched balance controls for higher accuracy.

Ranges:	R	0.1 ohm to 11.1 Mohm
	L	1μM to 111 uH
	C	10pF to 1110μF
	T	1/10000 to 1:111000

Cat. Q-1420 .. .. **$74.50**

R.C. SUBSTITUTION BOX

$9.50

HOBBYISTS – DESIGNERS.

Save a fortune on buying parts for experimentation.
2 Resistance Ranges – 15 ohm – 10 k ohms in 12 steps
15 k ohms – 10 M ohms in 12 steps.
Capitance Range – 0.0001 – 0.22 μF (600 V working)

Cat. Q-1400 .. .. **$9.50**

RF SIGNAL GENERATORS

TRIO SG-402 $110.40

Professional looking unit featuring 6 individually color coded frequency ranges on the easy to read scale. Solid-state construction.

Oscillating frequency;

A band	100kHz to 250kHz	B band	250kHz to 650kHz
C band	550 kHz to 1.5MHz	D band	1.5MHz to 4MHz
E band	4MHz to 11MHz	F band	10MHz to 30MHz

Frequency accuracy: – ±1.5%
Output voltage – More than 0.1V rms (20°C)
Attenuator – High-Low (Provide approximately 20 dB change)
Internal modulation frequency – Approximately 400Hz
Internal modulation degree – 40% ± 5%
External modulation frequency – 50Hz to 10kHz
External modulation voltage – 1.5V rms for 40% modulation or more
Power requirements – 100V, 117V or 230V AC ±10%, 50 or 60Hz
Dimensions – 186(W) x 220(D) x 131(H) mm. Weight – 2.2kg

Cat. Q-1250 .. .. **$110.40**

VALUE **$67.50**

TE20D

Provides tuneable RF output from 120kHz to 500MHz in 6 Fundamental Bands and 1 Harmonic Band. Makes trouble shooting in tuner and IF circuits easy. Features dual output RF terminals, a separate variable audio output and a crystal socket that can be used for self-calibration or as a marker generator.

Frequency Range:	120 kHz – 500 MHz
Frequency Accuracy:	±2%
Audio Output:	To 8 volts
Internal Modulation:	Approx. 400c/s
Tube Complement:	12BH7A, 6AR5, Silicon Diode and Germanium Diode
Power Source:	105/125, 220/240 volts, AC, 50/60 Hz
Dimensions:	140 x 215 x 170 **Weight:** 2.8kg

Cat. Q-1300 .. .. **$67.50**

MEGGER

$88.60

BATTERY OPERATED – NO FURIOUS CRANKING – VINYL CASE SUPPLIED –

SPECIFICATIONS:

Ranges:	
Meg ohm:	0~1,000MΩ (center 20MΩ) (rated voltage 500 volts)
Low ohm:	0~1,000 Ω (on x 1 range) 0~1M Ω (on x 1K range)
AC voltage:	0~250 volts
Batteries:	UM-3 x 4
Size and Weight:	148 x 78 x 50 mm, 540 g

Cat. Q-1430 .. .. **$88.60**

SIGNAL TRACER/INJECTORS

SIGNAL INJECTOR $5.75

For easy servicing of all radio, T.V., amplifiers, tape equipment etc. Fully transistorised unit has a signal output from audio through to H.F. frequencies – a must for all servicemen – will pay for itself in saved labour. Battery included.

Cat. Q-1270 .. .. **WAS $8.75 now ONLY** .. **$5.75**

$11

MITSUI MW / IF SIG. GEN.

Especially designed for broadcast receiver alignment.
One band covers 400-550kHZ for aligning IF's and the other 550 kHZ - 1600 kHz for medium wave.
Battery included,

Cat. Q-1290 .. .. **$11.00**

$49.50

SIGNAL TRACER/INJECTOR

A deluxe instrument of exceptional value. Features fully adjustable attenuator and both visual and oral monitors. Ideal for servicing on T.V., AM and FM and audio circuitry. Its high-gain allows tracing of signal right from the aerial terminals. Features include – meter for visual signal strength reading – output terminals for use with scope or V.T.V.M. – provision for testing external speakers – fully calibrated V.U. meter.
Latest model also incorporates a signal injector making this a truly versatile instrument. Powered by 9 volt dry cell battery.

SPECIFICATIONS:

Signal Injector:	Approx. 1kHz level 0-5V
Gain:	60 dB
Input Impedance:	Over 75K Ohms
Attenuation Factor:	0–20–40–60 dB
Output Impedance:	8 Ohms and 600 Ohms
Size:	135 x 85 x 51 mm

Cat. Q-1280 .. .. **$49.50**

$32.50

DICKS VALUE PLUS SPECIAL

TRANSISTOR CHECKER

MEASURES h_{FE} to 500. A high quality instrument suitable for manufacturer's quality control or the service bench, its efficient design and simple operation facilitating quick sure checking and comparison of h_{FE} values.
A clip lead is supplied for checking transistors that do not fit the plug in socket.

Types of transistors to be checked: PNP and NPN transistors (Models 2SA, 2SB, 2SC and 2SD)
h_{FE} checks: Ranges, 0 100 and 0 500
Conditions: IB constant at 50μA
V_{CE} constant at 6V Error, not exceeding 10%
Fault indication: Red lamp lights up to indicate E-C shorting.
Cat. Q-1390 .. .. $32.50

$41.50

FOR THE SERIOUS HI-FI BUFF

AC MILLIVOLTMETER

This meter is ideal for all audio system voltage and sound level measurements.

FOR SERVICE, RESEARCH OR DESIGN

SPECIFICATIONS:

Measuring range:	200μV to 30V in 8 ranges
Frequency response:	20Hz to 100KHz ± 1dB 1KHz reference
Voltage Range:	**Decibel Range:**
200μV to 10mV	−52 dB to −38 dB
1mV to 30mV	−42 dB to −28 dB
2mV to 100mV	−32 dB to −28 dB
10mV to 300mV	−22 dB to − 8 dB
20mV to 1V	−12 dB to 2 dB
100mV to 3V	− 2 dB to 12 dB
200mV to 10V	8 dB to 22 dB
1V to 30V	18 dB to 32 dB
Accuracy:	±3% Full Scale
Input Impedance:	1 Megohms in all ranges
Dimensions:	142H x 90W x 42D mm Weight: 300 gr.

Cat. Q-1492.. .. ..$41.50

$6.95

VALUE

BATTERY CHECKER

SO EASY TO USE – HAND HELD OR WALL MOUNTED CHECKS ANY C,D,AA or 9V transistor battery in an instant.

Meter shows clearly – GOOD – MARGINAL – DEAD.
High quality, rugged plastic construction with plated spring contacts for longer life. Size - 60 W x 65 H x 160 D (mm).
Cat. Q-1520 .. .. $6.95

$35

* HUNDREDS OF USES

MINI Z THERMOMETERS

These are high precision thermometers using thermistor probes. Model C is intended for medical use covering body temperature range +32° to +42°C with an accuracy of ±0.1°. Model 2N covers the range from −10 to 80°C with an accuracy of ±1.5° and is for general use. Simple push-button operation. Supplied with probe and plug in flexible lead which can be easily extended to 10M for remote measurements. Packed in handy carrying case. Batteries supplied.

Mini Z-C for medical use.
Cat. Q-1480.. .. ..$35.00
Mini Z-2N for general use.
Cat. Q-1490.. .. ..$35.00

COMMUNICATIONS INSTRUMENTS

CITIZEN'S BAND 27 MHz TX/RX TESTER

TREMENDOUSLY VERSATILE, COMPACT AND COMPLETELY PORTABLE – IDEAL FOR MOBILE USE.

This test set has been specially developed for the serviceman to facilitate the location of faults in hand held transceivers, etc. It can also be used on base stations up to 50W.

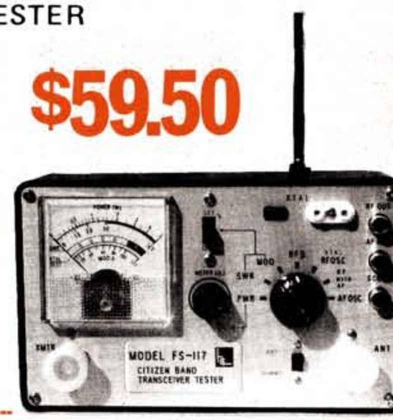
Just look at what it'll do.

1. Measure power output up to 5W.
2. Standing Wave Ratio, VSWR from 1:1 to 1:3
3. Modulation percentage 0-100%
4. Relative field strength.
5. Generate 27 MHz rf for receiver tuning
6. Check crystal activity
7. Generate af modulated 27 MHz
8. Generate 1000 Hz for audio testing
9. Act as a dummy load for testing transmitters up to 5W

* EXTREMELY GOOD VALUE

This portable unit is supplied with comprehensive instructions, test leads and telescopic antenna. Now anyone can tune up their own set and save a fortune on service.
Cat. Q-1380.. .. ..$59.50

$59.50



SWR/POWER METER

$21.50

VALUE

The MODEL 110 SWR/PWR Meter and Field Strength Indicator is a handy and compact device for amateur and professional use in checking the operation of a transmitter. The bridge method of comparing the power supplied to and reflected from the antenna system is utilized for SWR measurements. For RF power measurements, the average voltage from the carrier detector is measured. The calibration of the RF power meter is so adjusted to fit the 50 ohm line impedance. The 10 or 100 watt range can be easily selected by the front slide switch. Continuous monitoring of the transmitter output is possible by leaving the instrument in the circuit at all times. The unit can also be used as a field strength indicator by disconnecting it from the feed line and attaching the small pick-up antenna that is supplied.

SWR:	1 : 1 to 1 : 3
RF Power:	0-10 and 0-100 watts
Accuracy:	SWR - 5%; RF Power - 10%
Impedance:	52 ohms
Frequency Range:	1.5 KHz to 144 KHz
Indicator:	100 μA. DC
Dimensions:	150 (W) x 70 (D) x 55 (H) mm

Cat. Q-1352 .. ..$21.50

RF POWER/SWR METER

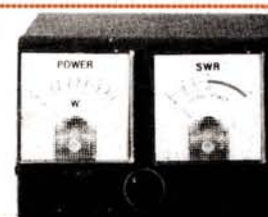
SWR and Power can be easily measured at the same time simply by connecting the meter between transmitter and antenna.

Power Range:	0 10W, 100W (2 ranges)
SWR:	1:1 1:3
Frequency Response:	3 MHz – 150 Mhz
Suitable Connector:	M type
Impedance:	50 ohm, 75 ohm
Dimensions:	100 x 70 x 87 mm
Weight:	900 g

Cat. Q-1360.. .. ..

* QUALITY INSTRUMENT

$34.50



OSKER BLOC SWR200 SWR/POWER METER

SPECIAL

JOIN THE PROFESSIONALS!

THIS IS THE FIRST INSTRUMENT OF ITS KIND UNDER $100

At last a truly professional instrument for the keen amateur. Uses the THROUGH-LINE principle. Covers 3 MHz to 200 MHz (guaranteed) with inbuilt changeover for 52 or 75 ohms U.H.F. Connector. Each unit is INDIVIDUALLY calibrated with its calibration change attached to the instrument. Four power ranges cover 0-2W, 0-20W, 0-200W and 0-2 kW.

Measures VSWR 1:1 to 1:10 and ∞.

This is the first instrument of its kind under $100.

Type:	Directional Coupler
Ratios:	1:1 to 1:10 & ∞
Frequency Range:	3 MHz to 200 MHz
Impedance:	75 ohms & 52 ohms
Full Scale Minimum Power:	50W at 3.5 MHz 15W at 7 MHz 5W at 14 MHz 2.5W at 21/28 MHz 0.5W at 50/144 MHz

Cat. Q-1340.. .. .. $67.50

Power Meter

Type:	Through Line
Power Ranges:	0-200W, 0-2 kW at 3.5 MHz 0-20W, 0-200W, 0-2 kW at 7/14/21 MHz 0-2W, 0-20W, 0-200W, 0-2 kW at 28 MHz 0-2W, 0-20W, 0-200W at 50/144 MHz
Accuracy:	±15% at SWR 1 on Centre
Safety Rating:	2 kW at SWR 1.1-1 750W at SWR 1.5-1 200W at SWR 3.0-1
Meters:	95μA DC
Connectors:	UHF Type (SO-239)
Dimensions:	76 H x 110 D x 220 W mm
Weight:	1250 g

$67.50

GRID DIP OSCILLATOR EXTREMELY VERSATILE!

THIS YEAR WE ARE OFFERING ONLY ONE GRID DIP OSCILLATOR. THE ONE, AFTER YEARS OF ASSESSING GDO's FROM EVERY POINT OF VIEW, WE HAVE DECIDED IS THE BEST VALUE FOR MONEY!

DICKS VALUE PLUS SPECIAL

$99.50

* Use as a signal generator
* Absorption wavemeter
* Checks Q of circuit
* Check resonance of circuits
* Check harmonic radiation from transmitting equipment
* Ideal for tuning circuits to resonance
* AM Modulation checker

This meter is a very attractive good quality unit with 6 color coded frequency ranges, battery operation and provision for an earphone to monitor modulation.
Cat. Q-1322 .. .. $99.50

FIELD STRENGTH METER SUB MINIATURE

* TINY BUT EFFECTIVE

$9.90

Simple VELCRO attachment to dash without tools or damage to surface.
A wide range field strength indicator particularly suited to modern mobile applications.

SPECIFICATIONS

Frequ. Range; 26MHz to 230MHz
Dimensions; 40x60x50mm
Weight; Featherweight - 57 g
Cat.Q-1370 .. .. $9.90

OSCILLOSCOPES

TRIO CO-1303D

Sensitivity **10mV/DIV**
Bandwidth **DC ~ 5MHz**
Sweep Frequency **10Hz ~ 100kHz** (4 Ranges)

$228.85 VALUE IN THE CLASS ROOM

This is an all solid state, 75 mm oscilloscope with outstanding performance features — vertical sensitivity of 10mV/DIV. bandwidth now to 5MHz : — despite its small size and ease of operation. Lightweight and portable, it will prove to be a very handy and reliable instrument in electronic equipment assembly centres, school classrooms and amateur radio stations for a wide range of scope applications.

SPECIFICATIONS

CRT:	C312P31
Vertical Deflection	
Sensitivity:	10mV/DIV
Attenuator:	1, 1/10, 1/100 and GND
Bandwidth:	DC: DC – 5 MHz (–3dB) AC: 2 Hz – 5 MHz (–3dB)
Input Impedance:	1MΩ, 35pF
Overshoot:	Less than 5% (100 kHz square wave)
Max Input Voltage:	600Vpp or 300V (DC + AC peak)
Horizontal Deflection	
Sensitivity:	300mV/DIV
Attenuator:	Continuously variable
Bandwidth:	DC – 250 kHz (–3dB)
Input Impedance:	1MΩ, 30pF
Time Base	
Sweep Frequency:	10 Hz – 100 kHz in 4 ranges and fine control
Linearity:	Less than 5%
Synchronization	
Type of sync:	–INT, EXT
Sync Amplitude:	INT: more than 1DIV on the screen EXT: more than 2Vpp
Built-in Circuit	
Direct Deflection:	More than 10V/DIV
Input Impedance:	2.2MΩ, 25pF
Intensity Modulation:	More than 25Vpp
Power Requirements:	AC 100/117/230V 50/60 Hz 16W
Dimensions:	186(W) x 131(H) x 280(D)mm
Weight:	3.8 kg
Accessories:	Input Cord (CA-46) 1 each Instruction manual 1 each

Cat. Q-1230 .. .. $228.85

We have allowed a great deal of space in this catalog to give you full details of these high quality CRO's from TRIO so that you will know exactly what you are ordering.

TRIO CS-1562

Sensitivity **10mV/DIV**
Bandwidth **DC~10MHz**
Sweep Time **1μs/DIV~0.5s/DIV**

$458.85 DUAL TRACE

- BRIGHT CRT FOR CLEAR MEASUREMENT OF HIGH FREQUENCY PULSES
- The high voltage power for CRT as well as the power for other circuits is fully stabilised because of the use of DC-DC converter, thus the sensitivity and luminance are completely free from effects of voltage variations.

SPECIFICATIONS

CRT:	C529P31
Vertical Deflection:	
Operating Mode:	CH1, CH2, DUAL
Sensitivity:	10mV/DIV
Attenuator:	0.01V–20V/DIV in 1-2-5 sequence, 11 ranges with fine control
Bandwidth:	DC: DC–10 MHz (–3dB) AC: 2Hz – 10 MHz (–3dB)
Input Impedance:	1MΩ, 22pF
Chopper Frequency:	Approx. 200 kHz
Horizontal Deflection:	
Mode:	SWEEP TIME set at "X-Y" CH1: Y axis CH2: X asis
Sensitivity:	Same as CH2 (0.01V/DIV–20V/DIV)
Bandwidth:	DC: DC – 1MHz (–3dB) AC: 2 Hz–1MHz (–3dB)
Input Impedance:	Same as CH2 (1MΩ, 22PF)
Sweep Circuit:	
Method:	Triggered and Automatic Sweep
Sweep Time:	1μsec/DIV – 0.5sec/DIV in 1-2-5 sequence, 18 ranges with fine control and "X-Y"
Magnification:	x 5 magnifier
Linearity:	Less than 3% (5μsec/DIV – 0.5 sec/DIV) Less than 5% (1μsec/DIV – 2μ sec/DIV)
Triggering:	
Source:	INT, EXT
Sync.:	NOR and TV, (+) or (–) in each mode
Range:	INT: Over 1 DIV on Screen EXT: Over 1Vpp
Calibration Voltage:	1Vpp (AC Line Frequency, square wave)
Intensity Modulation:	
Voltage:	Less than 5Vpp
Input Impedance:	10k ±20%
Power Requirements:	100/120/220/240V, 50/60 Hz, 20W
Dimension:	260(W) x 190(H) x 370(D)mm
Weight:	8.0 kg
Accessories:	Instruction Manual 1 each Power Line Cord 1 each Pin Plug (open) 1 each

Cat. Q-1242 .. .. $458.85

TRIO CS-1560A

Sensitivity **10mV/DIV**
Bandwidth **DC ~ 15MHz**
Sweep Time **0.5μs/DIV~0.5s/DIV**

PROFESSIONAL QUALITY
$557.75

The CS-1560A is a highly reliable and stable dual trace triggered sweep oscilloscope with all solid state circuitry and a 130mm screen. With its high vertical sensitivity of 10mV/DIV. bandwidth of DC to 15MHz and sweep time of o.5u sec/DIV. to 0.5 sec/DIV. it is ideal for a wide range of applications from analysing and adjusting television sets to various research, development and production processes. Of course it is also ideal for educational purposes.

SPECIFICATIONS

CRT:	130BRB31
Vertical Deflection:	(CH1 and CH2 same)
Operating Mode:	CH1, CH2, DUAL, ADD, SUB
Sensitivity:	10mV/DIV
Attenuator:	0.01V/DIV–20V/DIV in 1-2-5 sequence, 11 ranges with final control
Bandwidth:	DC: DC–15MHz (–3dB) AC: 2Hz–15MHz (–3dB)
Input Impedance:	1MΩ, 22pF
Chopper Frequency:	Approx. 200kHz
Horizontal Deflection:	
Mode:	SWEEP TIME set at "X-Y" CH1: Y axis CH2: X axis
Sensitivity:	Same as CH2 when set at "X-Y"
Bandwidth:	DC–1MHz (–3dB)
Input Impedance:	Same as CH2 when set at "X-Y"
Sweep Circuit:	
Method:	Triggered and Automatic Sweep
Sweep Time:	0.5μsec/DIV–0.5sec/DIV in 1-2-5 sequence, 19 ranges with fine control and "X-Y"
Triggering:	
Source:	CH1, CH2, EXT (+) or (–) in each mode
Sync.:	NOR and TV
Range:	CH1, CH2: Over 0.5DIV on Screen EXT: Over 1Vpp
Calibration Voltage:	1Vpp (1kHz square wave)
Intensity Modulation:	Over 20Vpp
Power Requirements:	100/120/220/240V, 50/60Hz, 23W
Dimension:	260(W) x 190(H) x 385(D)mm
Weight:	8.4kg
Accessories:	Instruction Manual 1 each Pin Plug (shorting) 1 each Pin Plug (open) 1 each

Cat. Q-1241 .. .. $557.75

PROBES

PC-21 PROBE AVAILABLE FOR CS-1562
Cat. Q-1243 .. .. $34.50

PC-27 PROBE AVAILABLE FOR CS-1560A
Cat. Q-1244 .. .. $43.00

FANTASTADICKSAGORICAL METER MUSTER

METERS PANEL MOUNTING

PANELMETERS

The M.R.A. range are high quality precision moving coil meters with a full scale accuracy of better than 2%. They all feature a fine needle pointer with zero adjustment. Finish is in clear perspex with a black lower section. Mounting is by four bolts — nuts are supplied.

Q-2060

Q-2070

MRA 65B (82 mm H x 100 mm W)		1–9	10 up
0-1mA	Cat. Q-2060	$9.50	$8.50
0-100μA	Cat. Q-2070 .. .	$11.25	$10.05

Q-2010

Q-2020

Q-2050

Q-2030

Q-2040

MOVING IRON TYPE

FROM $3.90

Rugged and accurate AC/DC meters — ideal for power supplies etc.

		1-9	10 up
ARG-456 50 mm oval			
0–20 Volts	Cat. Q-2080	$4.90	$3.90
0–10 Amps	Cat. Q-2090	$4.90	$3.90

SMALL PANEL METERS

MRA 45B (49mm H X 52mm W)		1-9	10 up
0-1MA	Cat. Q-2010	$7.90	$6.87
0-50μA	Cat. Q-2020	$8.50	$7.50
V.U. (0 dB = 1mW into 600 ohm)	Cat. Q-2050	$9.15	$8.15
0-5 Amp DC	Cat. Q-2030	$8.50	$7.50
0-20 Volt DC	Cat. Q-2040	$8.50	$7.50

MINIATURE EDGE METERS

GIVE YOUR PROJECTS A REALLY PROFESSIONAL LOOK
EXCITING NEW STYLES AND COLORS

REAR MOUNTING

These will suit those who require a high quality but very low price, range of meters which are all rear mounted for neatness. Resistance, 650 ohms, approx., sensitivity 150uA — 250uA, ½ scale to 400uA — 500uA full scale.

NEW! SUPER SMALL

Hole cut-out only 18mm X 18.5mm — tiny is'nt it?
Scale is graduated in five segments as well as red and black stripe.
Fine red vertical pointer.
Ideal for battery meter, sound level indicator etc.
Cat. Q2105 .....10 UP $2.75.....$3.20

NEW! GRADUATED METER SILVERED SCALE

Handsome, easy - to - read meter ideal for fine level adjustments. Two of these mounted one above the other give excellent stereo balance indications.
Cat. Q-2110 .....10 UP $3.75.....$4.00

Q-2105

Q-2110

NEW! STEREO LEVEL METER STRIKING BLACK FACE LEFT AND RIGHT SCALES

Scales graduated clearly in white from —20VU to 0, red 0 to +3VU. White pointers show clearly against black face making this the perfect meter for stereo level adjustments.
Cat. Q-2055 .....$8.50

$8.50

Q-2055

IC JUMPER KIT

Two leads each one meter long, one red, one black, with matching IC clip at each end.
Cat. W-4572 .. .. $3.00

IC TEST CLIP LEADS

These are similar to the IC Jumper Kit but have a 4mm plug on one end instead of an IC clip. Excellent for use with the Dick Smith range of multimeters.
Cat. W-4509 .. .. $2.50

TEST LEADS

COILED TEST LEADS SELF RETRACTING

$1.75

Features coiled leads that return to compact size after use, no long trailing leads to get caught up in your equipment. Red and black pairs with long slender fully insulated probes 1.5mm. meter plugs.
Cat. W-4520 .. .. $1.75

UNIVERSAL 16 PIECE METER LEAD SET

only $3.50

This set has everything you desire for your multimeter. 1 pair of red and black leads with adaptor probes and plugs, 4 x 4mm meter plugs, 2 x 1.5mm. meter plugs, 2 spade lug clips, 4 insulated alligator clips. This is truly a most versatile set, better quality and cheaper than other similar sets on the market.
Cat. W-4526 .. .. $3.50

JUMPER LEAD KIT

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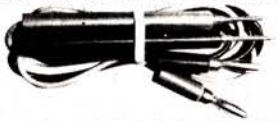

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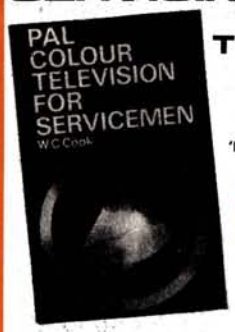

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Cat. B-1257 .. .. $6.50

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Most of the information in this book is also applicable to motor homes, campers and caravans. Talks about you and CB radio, buying your CB rig, how CB radios work, installing CB in your truck, the antenna, quick installations and lining up your set. In other words everything you need to know to get the most out of your CB radio.
Cat. B-1266 .. .. $4.75

CITIZENS BAND RADIO HANDBOOK — 5th Edition
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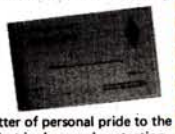

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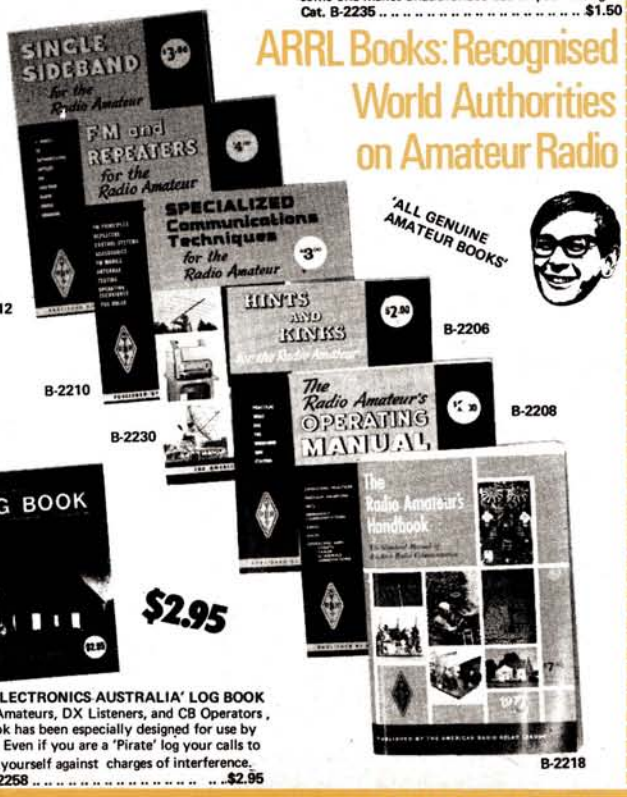

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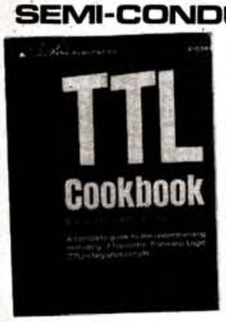

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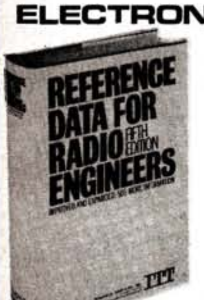

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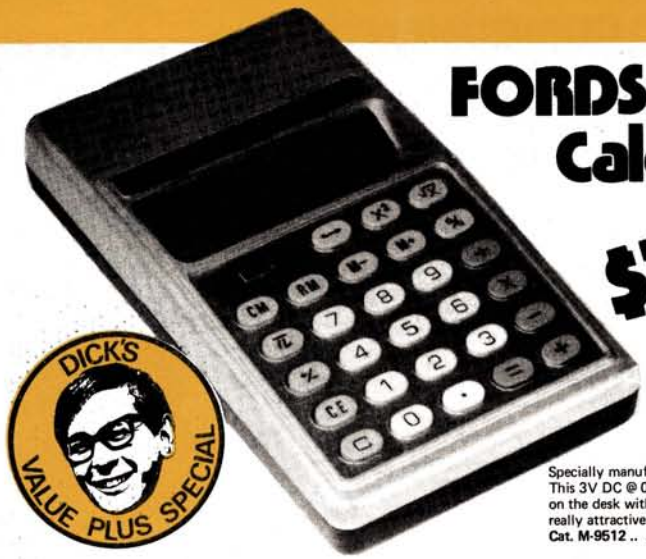

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The SR-52. Adds a vital, powerful new dimension to your work. Wherever it may be.

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$299.98 INC.TAX Cat. Q-3724

Optimization. Projections. Forecasting. Data reduction. What-if matrices. Iteration. Risk analysis. Probability. Mathematical modeling. Worst case analysis.

FREE! AC ADAPTOR & BATTERY PACK WORTH OVER $18

Run TI's pre-recorded programs or your own, in just a few hours you could be writing your own programs. With its 224 - step program memory, the SR-52 will handle programs you may have thought required a computer. It has twenty data memories you can access directly or indirectly, the facility for editing and debugging your program and it is also an extremely powerful slide rule calculator. In addition to this it is supplied with 22 pre-recorded program cards a 96 page Basic Library manual and a generous supply of blank program cards. A head cleaning card is also provided.

Optional libraries for the SR-52. Easy to put to work. Relevant to the job you're doing.

PRE-RECORDED CARDS AVAILABLE: *ELECTRICAL ENGINEERING, STATISTICS, MATHEMATICS, FINANCE. All Cat. Q-3725 .. .. $32.50*

Please specify the card library you require — there are at least 20 cards in each library and a complete instruction manual as well.

BLANK CARD LIBRARIES Cat. Q-3726 .. .. $19.50

NORMALLY SUPPLIED FREE WITH SR-52 & SR-56 CALCULATORS BUT ALSO AVAILABLE AS SEPARATE ITEMS.

AC ADAPTOR 5.6V, 200mA AC .. .. Cat.Q-3903 .. $9.75

BATTERY PACK .. .. Cat.Q-3921 ..$8.35

RECHARGEABLE KIT FOR TI-30

Includes a nickel-cadmium Electronic Battery and an AC Adaptor Charger.

Eliminates need to continually purchase disposable batteries.
Electronic battery can be recharged in or out of calculator.
Fully charges in 4 hours if calculator is off, 12 hours if in use.
Electronic battery can not be overcharged.

Cat. Q-3925 .. .. $14.42

The PC-100 A thermal printer. For the SR-56. For the SR-52. See your program at every step.

Imagine the convenience of getting a hard copy print out of: Data. Intermediate results. Answers. Imagine the efficiency of listing your entire program at the push of a key. Or, printing the calculator's *entire* data memory contents with a simple program. And now imagine seeing *every* step of your program as it's executed— both the number and the function. Imagine no more. TI's exclusive PC-100 printer is here. Ready to print long ballistic trajectories to short unit conversions. Or, complex tax analyses to simple cost/price margins.

Cat. Q-3727 .. .. INC TAX: $296.36 TAX FREE: $270.00

Texas Instruments portable electronic slide-rule calculator

$26.87 EX.TAX

TI-30 INC. TAX $29.50

USES READILY AVAILABLE 9V TRANSISTOR BATTERY (Cat.S-3106)

THE ECONOMICAL HIGH-CAPABILITY STUDENT CALCULATOR. A reasonably priced calculator with 48 functions students need from basic arithmetic to the most complicated higher math situations — designed by TI with the high school student specifically in mind.

VERSATILITY WITH MEMORY. In addition to the basic four functions the TI-30 has percent, parentheses, constant, roots, powers, reciprocal, scientific notation, common and natural logarithms, trigonometric functions with degree/radian/grad mode, and π. The memory provides for storage and recall of numbers, as well as sum to memory and memory display exchange.

STRAIGHTFORWARD SIMPLE OPERATION. The TI-30 features Texas's Algebraic Operating System (AOS) which allows problems to be entered in the same order that they are algebraically stated. This new system is found in all TI's new advanced calculators and is a major improvement in ease of use over alternative systems.

Cat. Q-3730 .. .. INC.TAX $29.50 .. .. EX.TAX $26.87

The SR-56. Programmability for better decision-making. Tremendous math power. Outstanding value at an economical price.

$105.50 Ex.Tax

'AN EXCELLENT CALCULATOR!'

FREE! AC ADAPTOR & BATTERY PACK WORTH OVER $18

Q-3728 $115.64 INC.TAX

Whatever the application, the SR-56 easily becomes an integral part of your work. As a powerful slide rule calculator. Or as a versatile key programmable. It's capable of solving problems once handled by computers. Every feature is designed to smoothly handle your problems with its: 100-programming steps. An eight register stack that handles up to seven pending operations. Plus, nine levels of parentheses. And 10 data memories.

An applications library, too.

A 192-page collection of programs. All prewritten. Select a program. Follow the listing (putting in your own data, of course). And, you'll immediately begin using your SR-56's computing power to solve your own problems.

Texas Instruments Handheld programmable calculators.

BURGLAR ALARM SYSTEMS AND COMPONENTS

COMPLETE HOME PROTECTION FOR ONLY—

NEW MODEL

$39-50

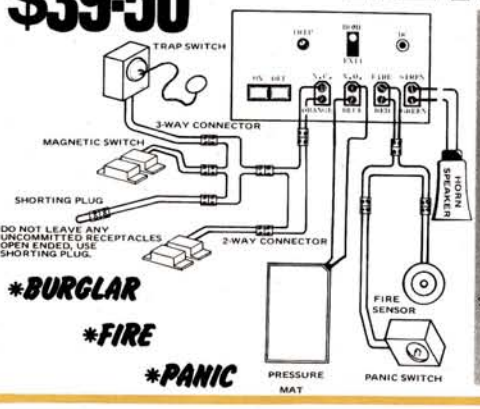
This is a professional system giving the same protection as similar commercial installations costing $250.00 or more. The system has been designed with the home handyman, do-it-yourself man in mind. You can install it yourself, and save a fortune. Ideal for homes, offices, factories, shops, caravans, any area requiring protection.

FEATURES

- Exit-Entry delay.
- Automatic siren turn-off after approx. 3 mins. (if tripped)
- Fire emergency circuit remains on alert 24 hours a day, even with burglar circuit off.
- Infinite long life L.E.D. for protection circuit test light.
- Two tone siren gives shrill on fire detection and wail on burglar detection.
- Completely self-contained, needs no external power (that could be cut off)
- Home/Exit switch gives instant or delay protection while someone is still at home (panic switch).
- Simple but explicit instructions covering planning and installation.

A beautiful system, comes complete with –Easy installed, Professional Burglar/Fire components, Mini Power packed Siren-sounder, 52.7°C heat detector, Panic switch for bedside, etc. Complete control centre, 2 core wiring, complete instructions, magnet switches, trap switches. Has N.C. and N.O. sensing inputs.

Cat. L-5105 .. .. $39.50



ULTRASONIC ALARM SYSTEM

This versatile ultrasonic alarm system is an easy to install motion activated burglar alarm designed to detect the presence of an intruder into your home, office or business, etc.

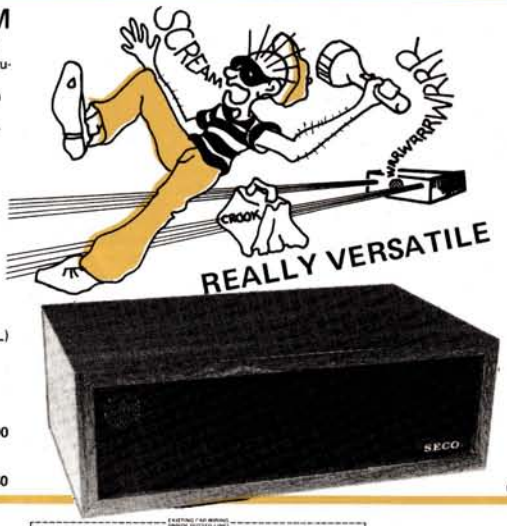
Operating on a principle similar to radar, the unit sends out an inaudible, invisible harmless beam that detects any movement within its path. It's ideally suited to surveillance of hallways, corridors, doorways, stairs, areas storing valuable items, etc., where normal alarm systems are not practical.

Features include:-

- ULTRASONIC RADAR-LIKE PROTECTION
- ADJUSTABLE COVERAGE AREA SENSITIVITY CONTROL
- COVERS DISTANCES TO 15 FT.
- COVERS AREAS UP TO 300 SQ. FT.
- NORMAL N.C. and N.O. SENSOR WIRING PROVISION
- DELAYED EXIT FACILITY
- DELAYED OR INSTANT DETECTION PROVISION
- DELAYED ENTRY PROVISION
- AUTO TURN-OFF AND RE-SET
- PROVISION FOR EXTERNAL HORN SPEAKER (OPTIONAL)
- PROVISION FOR EXTERNAL RELAY SWITCHING (OPTIONAL)
- BATTERY AND/OR MAINS OPERATION VIA OPTIONAL POWER PACK
- FAILSAFE POWER OPERATION

Cat. L-5108 .. .. $89.00

MAINS ADAPTOR POWER UNIT TO SUIT.
Cat. M-9550 .. .. $12.50



Cat. B-4500 .. .. 25c

FOR MOTOR VEHICLES

SLEEPING DOG INTELLIGENT ALARM

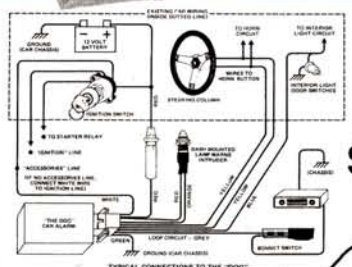
We are proud to bring you this high quality, versatile vechile alarm system. With this system installed correctly in your car, truck, bike, boat etc., you can have every confidence in knowing your property is being protected by the "Sleeping Dog".

Features include:–

High quality – potted, tamperproof control unit with 6 months warranty – versatile alarm control modes – unit is armed automatically via the ignition switch or can be controlled externally by an optional switch – delayed exit period – short delay for entry – auto turn off and reset after break-in – state of the art technology with low standby current drain – will contect to your horn or to external warning device – operates from normal courtesy light switching and loop system.

A truly versatile alarm supplied with wiring brackets, window sticker for intruder warning, dashboard flashing warning lamp. Also an exclusive computer readout sheet to show you the exact delay times of your own unit.

Cat. L-5095 .. .. $49.50



$49.50

COMPOSITE CONTROL MODULE

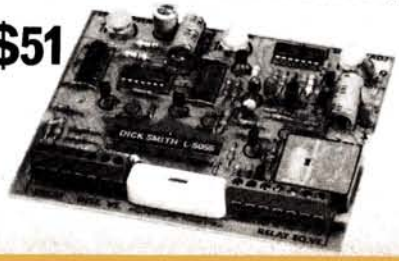
This is a high quality complete alarm control centre that will give the user high confidence of security protection. All necessary control functions are built into this unit, all that's required is a horn speaker and power supply. A feature of this alarm is built in solid state light emitting diodes that show the user the exact state of the alarm at any stage. Complete checks of the total system can be shown by the state of these 3 L.E.D.S. 12 Volt operation.

Features include:-

- EXIT TIME OF 2 MINUTES
- VARIABLE ENTRY TIME 0-45 SECS.
- AUTO SIREN TURN-OFF ADJUSTABLE FROM 1-20 MINUTES
- SELECTABLE AUTO TURN-OFF OR RE-SET AFTER INTRUSION
- L.E.D.S. SHOW SECTOR OF ALARM SYSTEM TRIGGERED
- VARIABLE DETERRANT REPETITION RATE
- HIGH SIREN DRIVE – 110 dbA @ 1m, UP TO 3 x 8 ohm SPEAKERS
- INBUILT RELAY WILL SWITCH EXTERNAL LOADS TO 8A.
- LOW STANDBY STATE 1mA – IDEAL BATTERY USE
- COMPLETE ADJUSTABLE CONTROL OVER STATES TO SUIT YOUR REQUIREMENT
- 12 MONTHS WARRANTY.

Cat. L-5055 .. .. $51.00

$51



BELL/SIREN TIMER MODULE

A neat little unit that can be added to an existing system or incorporated into a new installation. The unit is used with a lock on control system to give an automatic turnoff after 15 minutes if an alarm condition is triggered. Operates from 6 to 12 volts. Features an indicator light to show an alarm state was tripped. Ideal with our siren speaker.

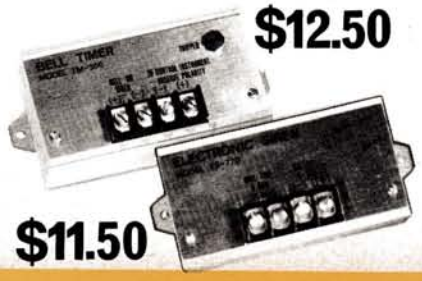
Cat. L-5110 .. .. $12.50

ELECTRONIC SIREN DRIVER MODULE

When used with a Horn Speaker (see our accessory list or any other 4-8 ohm speaker) this mighty unit delivers an earsplitting wail 103 dB @ 3M from 12 volts. Features a heavy duty output stage, operates from 6 to 12 volts. Could be used in association with the Bell Siren Timer Module or any control module.

Cat. L-5115 .. .. $11.50

$12.50



$11.50

BURGLAR ALARM SYSTEMS AND COMPONENTS
READ THIS FOR YOUR OWN PROTECTION.

Most people imagine that alarm systems are hard to understand and even harder to install. Yet even if you have never wired a plug, you can install one of our systems. They have been designed with the do-it-yourself in mind.
We have produced a leaflet **"How to Install Your Own Alarm System" – by Dick Smith**, another in our "Do It Yourself" series. This has been compiled to give you simple instructions and ideas to get the most from your system and show you how easy it is to install. You could save yourself a fortune.
Our range of alarm equipment covers a wide field of protection areas – homes, caravans, cars, factories, offices, bikes, boats, warehouses, stores, shops, valuable equipment and machinery, workshops, etc. Our systems can be adapted to just about any area of security risk. Look into it now – tomorrow may be too late.

OPEN CIRCUIT SENSOR (N.O.)

These may be simple switches or complex electronic systems. When in the active stand-by state, they are "open circuit", no sensing current flows through them. As soon as they are "tripped" by an intruder, they close and allow the sense current to pass through them an cause an alarm condition. A typical example would be a pressure mat used on the floor.
If more than one of these is used in a system, they are usually connected in parallel and taken to the N.O. input of the control centre.

CLOSED CIRCUIT SENSORS (N.C.)

As with the N.O. sensor this could be simple or complex. The system is the opposite to N.O. mode. In the active stand by state they are closed circuit and the sensing current flows through them. After being "tripped" they revert to an open circuit condition thereby cutting off the sensing current and registering an alarm condition. They are normally connected in series (one after the other) if more than one are used.

SEE OUR BOOK AND KIT SECTIONS

For further information on alarms, components and installations we suggest you look through our book section.
Alarm systems from simple,to complex microwave are available from our kit department. See listings.

AUDIBLE DETERRENT COMPONENTS

SPECIAL

$8.90

HORN SPEAKER

A miniature rugged weatherproof horn 8 ohm 5 watt. Approx. 5" in diameter. Ideal for installations where a deterrent module such as our Electronic Siren Driver Unit has been used. Also used for P.A. work. Can be mounted (via adjustable bracket mounted on its side) inside or outside of buildings. Use it in your car, truck or caravan.
Cat. C2705 .. .. $8.90

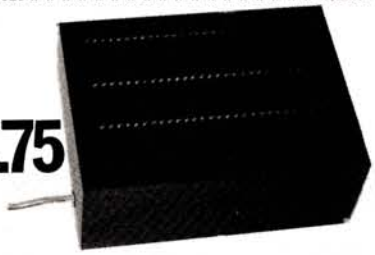
VALUE

$22.50

SIREN SPEAKER

A neat horn type speaker with electronic siren module built in. It delivers an earsplitting, penetrating wail, can be heard for blocks. It's weatherproof, so it can be mounted inside or out. Great for cars, trucks, caravans, boats, etc. Operates on low current from 12 volts. Ideal with our siren timer.
Cat. L-7026 .. .. $22.50

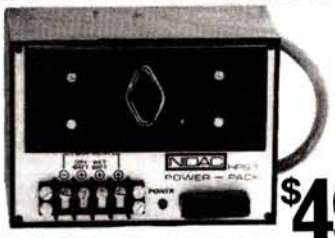
$4.75



MINI ALARM SPEAKER

This is a mini highly efficient speaker system capable of delivering earsplitting sound from your alarm audible module. Measures only 101 x 76 x 38 mm. Suits our L-5115 Siren Module.
Cat. L-5117 .. .. $4.75

ALARM POWER SOURCES



$49.50

HPS-1 POWER SUPPLY

What's the use of any alarm system if the power supply is no good? The HPS-1 fully protected 240V AC/13.2V DC supply is designed to Lab. specifications so that you get 13.2V DC with only 0.5 mV ripple right up to the rated output of 1 amp. Naturally it's short circuit proof and has a regulation better than 0.2%. In the event of a power failure, switch-over to standby batteries is instantaneous with no interruption to equipment. Unit can be used to float charge a wet cell. Many of these supplies have also been sold for use as bench supplies for running car radios, etc. at home.
Act. L-5056 .. .. $49.50

12V DRY BATTERY

LONG LIFE RELIABILITY

A heavy duty battery suitable for most alarm systems requiring 12 volts. Under normal conditions, this unit will give approximately 12 months of reliable service.
Cat. S-3242 .. .. $5.55

TAPE BLOCKS

NEAT INSTALLATION

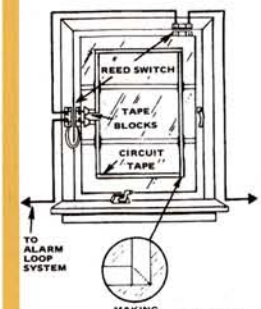
A terminating point for the L-5200 circuit tape. They are self-adhesive with screw terminating points.
Cat. L-5205 .. .. 30c

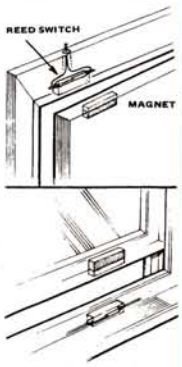
CIRCUIT TAPE

WINDOW

PROTECTION

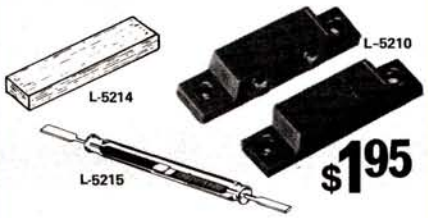
Designed for closed circuit alarm systems, this adhesive conductive tape breaks the instant a window is cracked. It makes a good deterrent whether connected to an alarm or not. Roll approx. 32 m x 6.35 mm.
Cat. L-5200 .. .. $3.60





TYPICAL COMPONENT USE

MAGNETIC REED SWITCH ASSEMBLY



$1.95

This is a complete matched set of magnet and reed switch. Mini design gives ease of installation in doors, windows, etc. N.C. standby goes open circuit when triggered. A reliable protection unit.

		1-9	10 up
	Cat. L-5210	$1.95	$1.70
Magnet only	Cat. L-5214	$1.25	85c
Reed only	Cat. L-5215	$1.25	85c

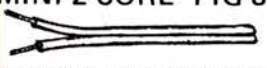
BARREL SWITCH

MANY USES

$4.90

Barrel type key switch c/w 2 keys used at entry-exit point for turning the alarm system on-off. Ideal for cars.
Cat. L-5290 .. .. $4.90

MINI 2 CORE 'FIG 8' WIRE



15c/metre

A suitable wire for connecting the alarm sensors and system. (see wires and cables section for other types of hook-up wire).
Cat. W-2010 — 15c per metre

SHOCK SWITCH

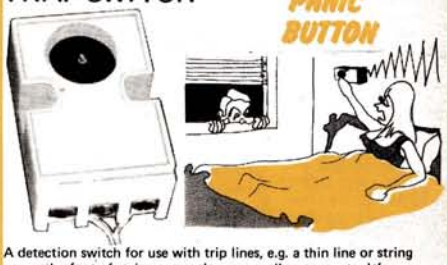
$2.50

IDEAL FOR MOTORBIKES AND PLATEGLASS

This is a mechanical switch used for detecting sudden movement. Such uses as machinery moving parts, protection covers, etc. The sensitivity of the switch can be adjusted to detect even the slightest movement, e.g. movement of a motor cycle from its position. Standby state is N.C., goes open circuit when triggered.
Cat. L-5250 .. .. $2.50

TRAP SWITCH

PANIC BUTTON



A detection switch for use with trip lines, e.g. a thin line or string across the foot of stairs, across doorways, alley ways, etc. It's equipped with both screw mounting or self adhesive pad. Can be used either N.C. or N.O. This unit can also be used as a panic switch for personal use, e.g. bedside switch.
Cat. L-5252 .. .. $2.95

HEAT SWITCH

*FIRE

$5.50

A small screw mounted dome placed in potential fire hazard areas such as above cooking appliances, heaters, boilers, etc. The mechanism triggers at 57.2°C (135°F). The contacts are N.O. on stand by, going to closed circuit on detection. Contact rating is 120 V AC, max. 5A Max.
Cat. L-5254 .. .. $5.50

PRESSURE MAT

ENTRY DETECTOR

$13.40

An ultra thin mat for placing under carpets, in walkways, etc. N.O. in standby state, goes closed circuit when walked on. Can be used in doorways of shops as customer entry detector.
Cat. L-5270 .. .. $13.40

DETERRENT STICKER PROTECTION FOR $1.00

We have had printed a window sticker for your car, house, etc. to show you have an alarm system installed. A would be intruder seeing this is not likely to even attempt a break in. Whether your property has an alarm system or not, this bright, easily read sticker will have a deterrent effect.
Cat. L-5310 .. .. $1.00

MYPHONE – HIGH QUALITY 2–STATION TO 11–STATION

We now have available a full range of the excellent Myphone Intercoms. They feature excellent audio quality and simple installation. In fact the home handyman or electronic hobbyist can easily install them with easy to understand instructions.

Look at these features:

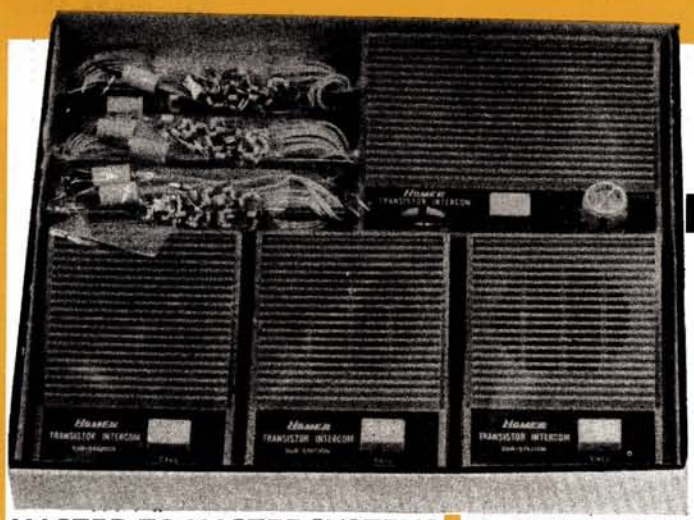
- **High quality French Isostat switches**
- **"Hands Free" reply from any station**
- **Master to master or master to remote operation**
- **Wall or desk mounting**
- **Inbuilt batteries or external 6 volt operation**
- **Inexpensive**
- **Up to 300 m range between units**

Yes, for many years enthusiasts have requested a high quality intercom system with quality switches that will not get "noisy" with constant use.

Ideal for office, home, factory, shops, hotel, restaurant etc. use.

Save all that walking and room to room shouting! Install a complete battery operated intercom in your home or office for less than $15.

Even the simplest intercom enables you to keep a listening watch on baby's room or the swimming pool or to identify front door callers as well as to make private calls between stations.



4 STATION INTERCOM

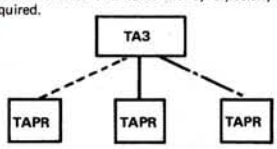
$29·50

DICK'S VALUE PLUS SPECIAL

MASTER TO REMOTE SYSTEMS

In this system the master can call any one of up to 3 remotes and the remotes can call the master. However, one remote unit cannot call another remote unit.

The most important advantage of the master to remote system is the fact that only two wires are necessary between the master and each remote. This saves money especially if long runs are required.



$9·75

TA-PR REMOTE UNIT

This unit can be used in conjunction with Master units TA-3 & TA-4M and incorporates a privacy switch to prevent unauthorised listening by the master.

Cat. F-1201 .. .. $9.75

$23·50

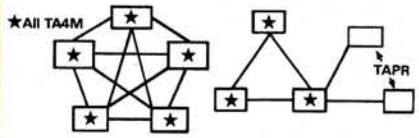
TA-3 MASTER

This unit is used in conjunction with TA-PR remote units as shown in the diagram to make a system where the master and any remote may communicate but where remotes cannot communicate with each other.

Cat. F-1230 .. .. $23.50

MASTER TO MASTER SYSTEMS

This is the most versatile system available. Each unit can call any other unit directly. If there are long distances between units, cabling costs can be expensive.



$32·50

TA-4M 5–STATION MASTER

Used in conjunction with up to 4 other TA-4M units giving a maximum of 5 "all master" units. Requires three more wires than the total number of master units. (i.e. a three station system would require six wires between each unit. Distances between units can be up to 1000 feet. Also incorporates a privacy switch and the called unit can answer "hands free".

The TA-4M System may be intermixed with TA-PR remote units so long as no more than four units are connected to any one master.

Cat. F-1240 .. .. $32.50

$39·50

TA-9M 10–STATION MASTER

These units may be used in a system of all TA–9M Masters, a combination of TA–9M and TA–4M Masters

With the same quality features as all MYPHONE intercoms these units will withstand many years of constant useage without becoming 'noisy' or faint.

Once you have experienced the convenience and speed of "hands free" answering you will wonder how you managed without it.

Cat. F–1290 .. .. $39.50

4–STATION INTERCOM

Fully transistorised with one master and three slave stations with 21 meters of cord for each slave station. Can be wall mounted or placed conveniently on desk or bench.

Wonderful for communicating through the whole house and works even when the power is off from its own battery which has a life of 4-5 months. Features "hands off" answering from slave stations in complete privacy.

Cat. F-1040 .. .. $29.50

FANTASTIC VALUE ONLY $14·00

2–STATION INTERCOM

This highly efficient solid state intercom will work over any distance up to 160 meters. Master unit has volume control and is supplied complete with slave, battery and 16 meter cord. Either station can call even if the system is turned off.

Cat. F-1020 .. .. $14.00

★★★★★★★★★ FANTASTIC ★★★★★★★★★

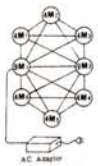
$9·75

TD-1A DOORPHONE

This unit can be used in conjunction with master units TA-3 & TA-4M. For personal safety it allows you to screen callers before opening the front door. Has different call tones so it can be identified from all through the house.

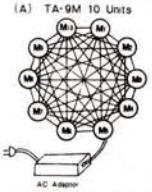
Cat. F-1200 .. .. $9.75

TA–9M 2 UNITS & TA- 4M 6 UNITS



TA–9M 10 UNITS

(A) TA-9M 10 Units



★★★★★★★★★★★★★★★★★★★★★★★★★

NOTE: Very explicit "easy to understand" instructions are given with each unit and we guarantee that anyone with a practical aptitude will be able to connect them. No soldering is required.

 LOOK AT THE AMAZING NEW SPEAKER KITS ON PAGES 18 & 19

"WITH-IT" ENTHUSIASTS SHOP BY MAIL & AND SAVE!

SAVE TIME

KEEP YOUR CATALOGUE HANDY . . . for instant use and reference. It illustrates and describes an incredible range of Electronic Components and Equipment. You can shop in this "Giant One-Stop Electronics Shopping Centre" from a wide selection of items, all in the comfort and convenience of your own home . . . Moreover, comparison will reveal that Dick's prices are up to 70% lower than what you will pay in your local shop.

SAVE MONEY

SAVE ENERGY

Not only do you save time when you Shop by Mail but you can shop at your leisure any day, any hour, and make your selection more carefully too . . . there's no hurry — no crowds — no parking problems ever — and all your purchases are promptly delivered — and Guaranteed by the manufacturers and ourselves . . . So shop the smart way, the convenient way, by Mail from your Dick Smith Catalogue.

HOW TO FILL OUT YOUR ORDER FORM

PLEASE READ CAREFULLY

CHANGED YOUR ADDRESS
Fill in your old address details so that we can keep together your purchase history in our file. Very important in case of queries arising.

YOUR CURRENT ADDRESS
Please make sure that you print your name and address clearly. We can't afford a handwriting expert to decipher it! Give your post code since it helps us with our records. A telephone no. too in case there are any queries. And the date. We need the date as an office check. Write your name the same way each time you order. Not John Jones one time and J.W. Jones the next.

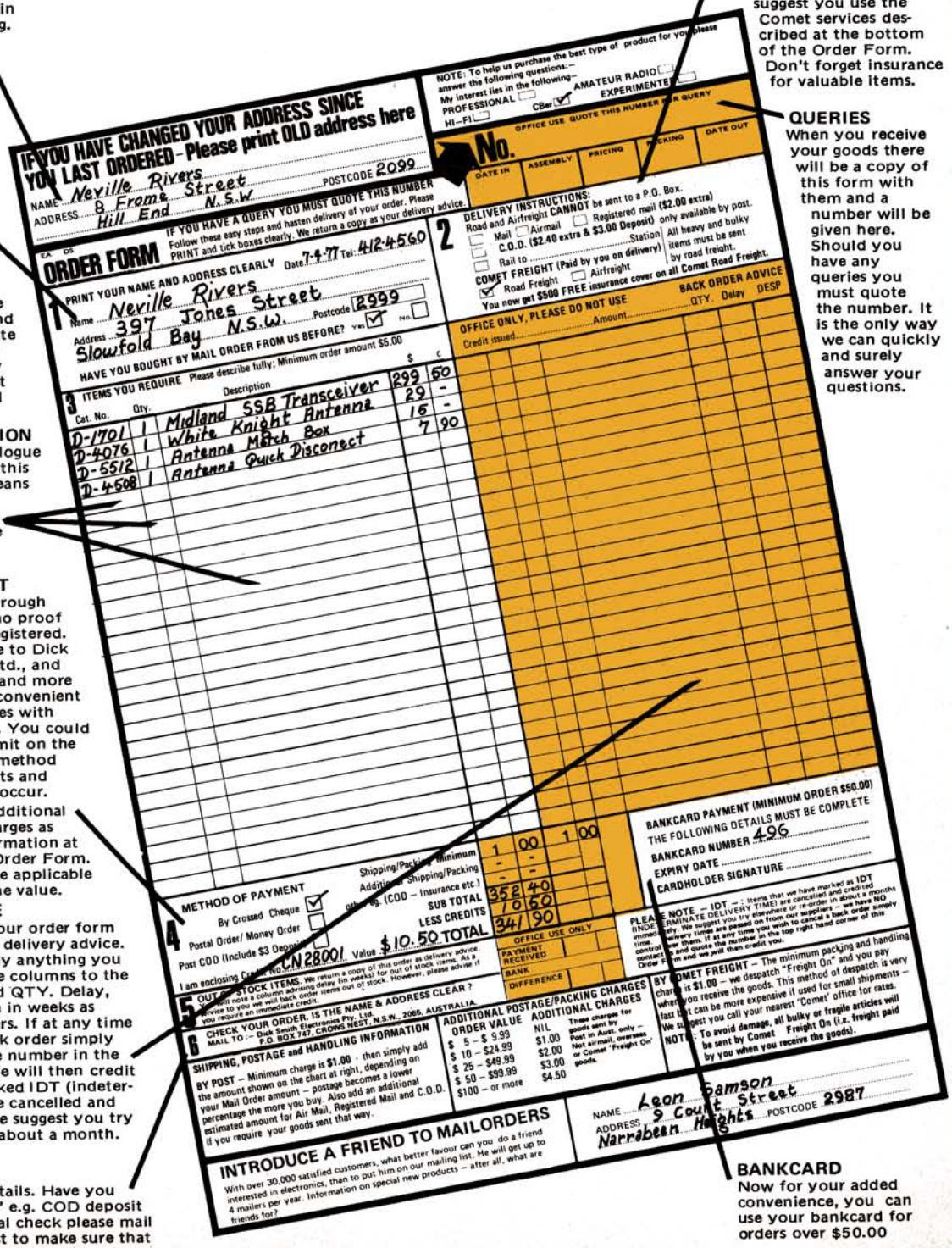
CAT. NO. & DESCRIPTION
You must show the Catalogue number for each item as this is the most important means of positively identifying exactly which item you require. Show clearly the quantity of each item required.

METHOD OF PAYMENT
Please don't send cash through the mail. You will have no proof of its arrival unless it's registered. Make all cheques payable to Dick Smith Electronics Pty. Ltd., and please cross them. More and more of our customers find it convenient to send in crossed cheques with the amount not filled in. You could even write the $ value limit on the top of the cheque. This method eliminates the small debits and credits which inevitably occur.

Make sure you include additional shipping and packing charges as calculated from the information at the bottom of the Mail Order Form. Include credit note where applicable giving the number and the value.

BACK ORDER ADVICE
You will get a copy of your order form back with the goods as a delivery advice. If we are unable to supply anything you will see it recorded in the columns to the right of section 3 marked QTY. Delay, DESP. The delay is given in weeks as told to us by our suppliers. If at any time you wish to cancel a back order simply contact us and quote the number in the top right hand corner. We will then credit you. Items we have marked IDT (indeterminate delivery time) are cancelled and credited immediately. We suggest you try elsewhere or re-order in about a month.

FINAL CHECK
Please check all order details. Have you included "other charges" e.g. COD deposit insurance etc.? After final check please mail to us. We will do our best to make sure that the goods arrive as soon as possible.



DELIVERY INSTRUCTIONS
How do you want your goods delivered? Don't forget COD only applies to goods sent through the post. For really urgent orders we suggest you use the Comet services described at the bottom of the Order Form. Don't forget insurance for valuable items.

QUERIES
When you receive your goods there will be a copy of this form with them and a number will be given here. Should you have any queries you must quote the number. It is the only way we can quickly and surely answer your questions.

BANKCARD
Now for your added convenience, you can use your bankcard for orders over $50.00

IF YOU HAVE CHANGED YOUR ADDRESS SINCE YOU LAST ORDERED – Please print OLD address here

NAME .....

ADDRESS.....

.....POSTCODE .....

NOTE: To help us purchase the best type of product for you please answer the following questions:–

My interest lies in the following–

PROFESSIONAL ☐ AMATEUR RADIO ☐

HI–FI ☐ CBer ☐ EXPERIMENTER ☐

OFFICE USE QUOTE THIS NUMBER FOR QUERY

No.

DATE IN	ASSEMBLY	PRICING	PACKING	DATE OUT

EA DS

ORDER FORM

IF YOU HAVE A QUERY YOU MUST QUOTE THIS NUMBER

Follow these easy steps and hasten delivery of your order. Please PRINT and tick boxes clearly. We return a copy as your delivery advice.

1 PRINT YOUR NAME AND ADDRESS CLEARLY

Date..... Tel:.....

Name .....

Address .....

.....Postcode ☐

HAVE YOU BOUGHT BY MAIL ORDER FROM US BEFORE? Yes ☐ No. ☐

2 DELIVERY INSTRUCTIONS:

Road and Airfreight **CANNOT** be sent to a P.O. Box.

☐ Mail ☐ Airmail ☐ Registered mail **($2.00 extra)**

☐ **C.O.D. ($2.40 extra & $3.00 Deposit)** only available by post.

☐ Rail to .....Station

COMET FREIGHT (Paid by you on delivery)

☐ Road Freight ☐ Airfreight

All heavy and bulky items must be sent by road freight.

You now get $500 FREE insurance cover on all Comet Road Freight.

3 ITEMS YOU REQUIRE

Please describe fully; Minimum order amount $5.00

Cat. No.	Qty.	Description	$	c

OFFICE ONLY, PLEASE DO NOT USE

Credit issued.....Amount.....

BACK ORDER ADVICE

QTY.	Delay	DESP

SHOP BY MAIL ORDER – YOUR LETTER BOX IS EVEN

4 METHOD OF PAYMENT

By Crossed Cheque ☐

Postal Order/ Money Order ☐

Post COD (Include $3 Deposit) ☐

I am enclosing Credit No..... Value .....

Shipping/Packing Minimum	1 00	1 00
Additional Shipping/Packing other eg. (COD – Insurance etc.)		
SUB TOTAL		
LESS CREDITS		
TOTAL		

BANKCARD PAYMENT (MINIMUM ORDER $50.00)

THE FOLLOWING DETAILS MUST BE COMPLETED

Bankcard Number 496.....

Expiry Date .....

Cardholder Signature .....

5 OUT OF STOCK ITEMS. We return a copy of this order as delivery advice. You will note a column advising delay (in weeks) for out of stock items. As a service to you we will back order items out of stock. However, please advise if you require an immediate credit.

6 CHECK YOUR ORDER. IS THE NAME & ADDRESS CLEAR ?

MAIL TO :– Dick Smith Electronics Pty. Ltd.
P.O. BOX 747, CROWS NEST, N.S.W., 2065, AUSTRALIA.

OFFICE USE ONLY	
PAYMENT RECEIVED	
BANK	
DIFFERENCE	

PLEASE NOTE – IDT – : Items that we have marked as **IDT** (INDETERMINATE DELIVERY TIME) are cancelled and credited immediately. We suggest you try elsewhere or re-order in about a months time. **Delivery times are passed on from our suppliers – we have NO control over them. If at any time you wish to cancel a back order simply contact us and quote the number in the top right hand corner of this Order Form and we will then credit you.**

SHIPPING, POSTAGE and HANDLING INFORMATION

BY POST – Minimum charge is **$1.00** - then simply add the amount shown on the chart at right, depending on your Mail Order amount – postage becomes a lower percentage the more you buy. Also add an additional estimated amount for Air Mail, Registered Mail and C.O.D. if you require your goods sent that way.

ADDITIONAL POSTAGE/PACKING CHARGES

ORDER VALUE	ADDITIONAL CHARGES
$ 5 – $ 9.99	NIL
$ 10 – $24.99	$1.00
$ 25 – $49.99	$2.00
$ 50 – $99.99	$3.00
$100 – or more	$4.50

These charges for goods sent by Post in Aust. only – Not airmail, overseas or Comet 'Freight On' goods.

BY COMET FREIGHT – The minimum packing and handling charge is **$1.00** – we despatch "Freight On" and you pay when you receive the goods. This method of despatch is very fast but can be more expensive if used for small shipments – We suggest you call your nearest 'Comet' office for rates.

NOTE : To avoid damage, all bulky or fragile articles will be sent by Comet Freight On (i.e. freight paid by you when you receive the goods).

INTRODUCE A FRIEND TO MAILORDERS

With over 30,000 satisfied customers, what better favour can you do a friend interested in electronics, than to put him on our mailing list. He will get up to 4 mailers per year. Information on special new products – after all, what are friends for?

NAME .....

ADDRESS .....

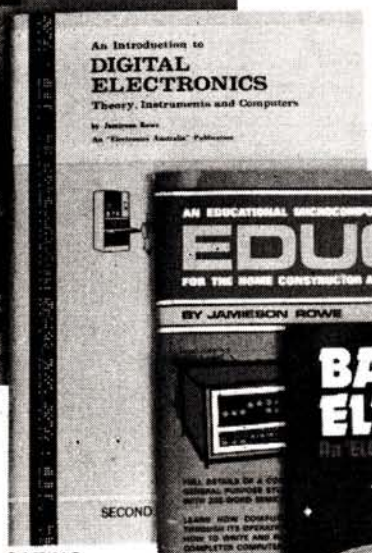
.....POSTCODE .....

a basic library for electronics enthusiasts

Interested in electronics? Be it at professional, trade, student, amateur or "dabbler" level, you will find this collection of publications invaluable.

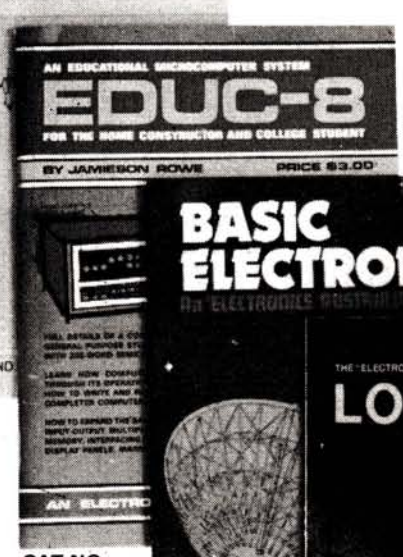
FUNDAMENTALS OF SOLID STATE gives a wealth of information on the structure, principles, operation and applications of solid state devices. Adopted as a text by many colleges, recommended reading for many courses . . . For the amateur, hobbyist, engineer or student. $3.00.

CAT NO B3621



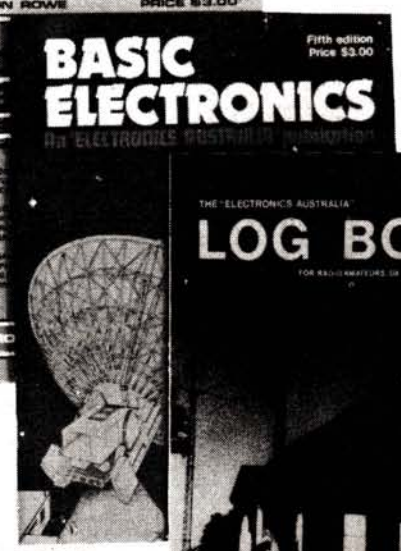
AN INTRODUCTION TO DIGITAL ELECTRONICS bridges the gap between conventional electronics and the background required to understand the operation of digital equipment. Also used widely as a textbook; also suitable for all levels. $3.00.

CAT NO B3622



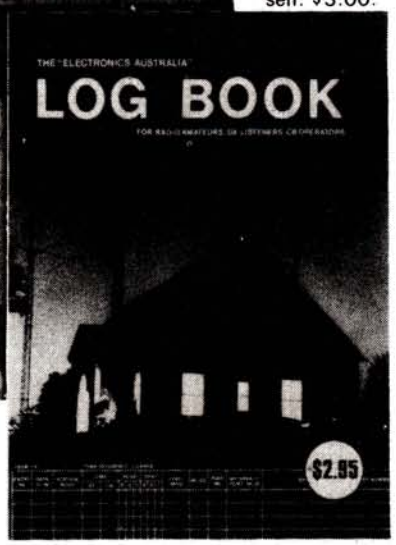
EDUC-8 COMPUTER HANDBOOK gives full details of a complete build-it-yourself general purpose stored-program computer with 256 word memory. Learn how computers work. $3.00.

CAT NO B3624



BASIC ELECTRONICS: For the beginner, or for the hobbyist as a reference book. Starts with the atom and ends with amateur radio and hi-fi systems. Includes simple circuits to build yourself. $3.00.

CAT NO B3620



ELECTRONICS AUSTRALIA LOG BOOK: Designed primarily for radio amateurs but suitable also for use by CBers and DX listeners. Contains many pages of useful supplementary information and is printed on high quality paper. Excellent value at $2.95.

CAT NO B2258

All Electronics Australia handbooks are available from Dick Smith Electronics or from the Publisher.

PRODUCED AND PUBLISHED BY ELECTRONICS AUSTRALIA

LOW PRICE TRANSFORMERS HIGH QUALITY

DICK'S OWN SPECIAL QUALITY LOW PRICE TRANSFORMERS

Save a fortune on your transformer purchases. Your project could be costing you more than necessary if you don't use one from this economic range. Check out the details.

We have these transformers specially made for us to bring you a quality product at a down to earth price. They exceed the following specifications.

DIELECTRIC TEST

Primary to Core:	4000V. A.C.
Primary to Secondary:	4000V. A.C.
Secondary to Core:	1500V. A.C.

INSULATION RESISTANCE

Primary to Core:	100 MEG OHM/500V. D.C.
Primary to Secondary:	100 MEG OHM/500V. D.C.
Secondary to Core:	100 MEG OHM/500V. D.C.

Transformers have special fibre insulation between primary and secondary to give you an even safer transformer.

M-2840
Primary: 240V. A.C.
Secondary Voltage: 9 volts CT.
Secondary Current: 150 mA
Termination: Flying Leads.

	Price 1–9	Price 10 up
Cat. M-2840	$3.25	$2.75

M-2851
Primary: 240V. A.C.
Secondary Voltage: 12.6 volts CT.
Secondary Current: 150 mA.
Termination: Flying leads.

Cat. M-2851	$3.50	$2.75

M-2155
Primary: 240V. A.C.
Tapped Secondary Voltages: 6.3, 7.5, 8.5, 9.5, 12.6, 15 volts.
Secondary Current: 1 Amp.
Termination: Solder lugs on Transformer

Cat. M-2155	$5.50	$4.65

M-6672
Primary: 240V. A.C.
Tapped Secondary Voltages: 15, 17.5, 20, 24 27.5, 30 volts.
Secondary Current: 1 Amp.
Termination: Solder Lugs

Cat. M-6672	$7.75	$6.75

M-2000
Primary: 240V. A.C.
Secondary Voltage: 18 volt.
Secondary Current: 6 Amps.
Termination: Flying leads.

(Designed especially for solid state regulated power supplies giving outputs up to 13.8V. D.C.

Cat. M-2000 .. $17.32

NOTE: On the multiple tapped transformers, as well as the normal tap points with respect to the common side, e.g., 6.3, 7.5, 8.5 etc., other voltages can be derived between the tap points. e.g., between 7.5 and 8.5 = 1 Volt, between 6.3 and 8.5 = 2.2 Volts and so on.

POPULAR TRANSFORMERS

M-0144
240V. A.C. Primary, Secondary 28V – 0 – 28V @ 2A. (Similar to Ferguson PF3577) suits 100W. Guitar Amp & 422 Amp.

Cat. M-0144 .. $15.40

M-0146
240V A.C. Primary, Secondary 22V–0–22V @ 2A. Used in TWIN 25 PLAYMASTER AMPLIFIER.
Cat. M-0146 .. $12.50

SPECIAL 'C' CORE

$26.50

M-0148
240V A.C. Primary, Secondary 26V–0–26V @ 2A. Used in 40/40 PLAYMASTER AMPLIFIER.
Cat. M-0148 .. $26.50

CLOCK TRANSFORMERS

M-2822
240V A.C. Primary, Secondary 5V–0–5V @ 250mA and 16V @ 25mA. Used in 1002 CLOCK.
Cat. M-2822 .. $4.25

M-2820
240V A.C. Primary, Secondary 180V and 15V. As used in hi-voltages clocks.
Cat. M-2820 .. $5.75

LOW PROFILE TRANSFORMERS

QUALITY

Each transformer has 2 separate secondary windings which can be wired in series or parallel. They are fitted with round pin terminations. 240V. A.C. Primary.

Type	Separate Windings	Parallel Wired	Series Wired	Cat.
PL12/20VA (3596)	2 x 6v. @ 1.7A.	6v. @ 3.4A.	12v. @ 1.7A.	M-3596
PL15/20VA (3597)	2 x 7.5v @ 1.3A	7.5v. @ 2.6A.	15v. @ 1.3A.	M-3597
PL18/20VA (3598)	2 x 9v. @ 1.1A	9v. @ 2.2A.	18v. @ 1.1A.	M-3598
PL24/20VA (3599)	2 x 12v. @.85A.	12v. @ 1.7A.	24v. @ .85A.	M-3599
PL30/20VA (3600)	2 x 15v. @.69A.	15v. @ 1.38A.	30v. @ .69A.	M-3600
PL40/20VA (3601)	2 x 20v. @.51A.	20v. @ 1A.	40v. @ .51A.	M-3601

ALL MODELS .. $9.51

GENERAL AND SPECIAL PURPOSE TRANSFORMERS

All 240V. A.C. Primary

Type	Secondary Voltage	Current	Cat.	Price
6978	6.3, 7.5, 9, 10.5, 12.6, 15	2A.	M-6978	$15.00
5509	12.6 or 25.2	5A or 2.5A.	M-5509	$15.90
2876	32 or 64	2A or 1A.	M2876	$17.99

TRANSISTOR AUDIO TRANSFORMERS

SAVE

Normally $1.50 each

We now have in stock these hard to get miniature transistor transformers. Ideal for transistor radio replacements, good for transistor projects requiring coupling transformers including oscillator circuits.

IMPEDANCE Primary	Secondary	Use	Cat.	Price
500 ohm CT	8 ohm	450MW.O/P	M-0226	$1.00
3 Kohm	3 Kohm. CT	Coupling	M-0222	$1.00
1 Kohm CT	8 ohm	350MW.O/P	M-0216	$1.00
10 Kohm	2 Kohm. CT	Coupling	M-0212	$1.00

Dimensions

M-O226	20L x 16.5W x 16H. mm.	Iron Core
M-O222	17L x 15.5W x 15H. mm.	
M-O216	15L x 14W x 11.5H. mm.	
M-O212	15L x 14W x 11.5H. mm.	Ferrite Core.

LINE SPEAKER TRANSFORMER

SPECIFICATIONS–
4 watts R.M.S. rating
2,4,8,16 OHMS Secondary
2.5K, 5K OHMS Primary

MULTI–PURPOSE MATCHING TRANSFORMER

This amazing transformer has been engineered to cover more than 95% of all PA–BGM applications. It is completely suited to all speaker impedances.
Multitapped for use with 100V or 70V lines 52mm mounting suits most Australian and overseas speakers. **A REALLY VERSATILE UNIT.**

	1-9	10 up
Cat. M-1100	$3.50	$3.00

240V - 115V STEPDOWN

$34.10

Ideal for operating imported 115V. A.C. equipment off local 240V. A.C. Mains. Housed in strong metal case, comes complete with 2 pin American output socket and fuse. Fully approved unit.

Model 60 Watt Cat. M-1156 .. $34.10

NICAD BATTERY CHARGER

1.2 VOLT to 12 VOLTS

New special 12 volt @ 25mA. nickle-cadmium charger, suits 12V. rechargeable Battery packs in 2 way transceivers, such as walkie-talkies. Will charge from one to ten 1.2 volt batteries at one time. Current automatically adjusts. Use with any Ni-Cads.

Cat. M-9517 .. $11.50

TRANSFORMER EQUIVALENT CHART

The following list is a guide to transformers of similar characteristics. For exact replacements on direct types, manufacturers specifications should be checked.

Manufacturers No.	Our Cat. No.	Manuf. No.	Our Cat. No.
PF2315	M-2155	PF2565	M-6672
PF1728	M-2155	AR9129	M-6672
AR2155	M-2155	AR6672	M-6672
AR2851	M-2851	PF3577	M-0144
PF2851	M-2851	AR5502	M-0146
AR6474	M-2851		

POWER SUPPLIES

BIG DICK VARIABLE POWER SUPPLY

A regulated but variable power supply suitable for general bench service. Makes ideal experimenters supply. Fully solid state, 3 transistor, 7 diode circuit, 2 ranges 0–12V. D.C. and 12–24V. D.C. Max. current 1.5 amps. The unit is housed in a vented pressed metal case C/W mains cord, it is equipped with a panel meter that is switched to read voltage or current. An On-Off switch, voltage range selector switch and variable control complete the front panel. The supply may be wired directly into equipment or terminal posts fixed to the front panel. Posts supplied free.

Cat. M-9544 .. $49.50

13·8V.d.c. POWER SUPPLY

$38.50

This is a fully regulated power supply with an output of 13.8V D.C. at 1.5A. continuous (3A. peak), and with two color coded terminals. It is housed in a strong metal case and is complete with mains flex and anodised front panel. Ideal bench supply for servicing, will power auto equipment such as car radio's, stereo's, mobile transceivers etc. IDEAL POWER SUPPLY FOR YOUR CB TRANSCEIVER.

Cat. M-9540 .. $38.50

BELLSONIC 6V to 12V CONVERTOR

$25.00

A low cost convertor for use on equipment that requires 12v. D.C., but only 6v. D.C. is available. e.g., V.W. owners that have 12v. radios to work in their 6v. car. You don't have to trade in your favourite transistor car radio or buy a new one, just wire in this simply mounted unit and you're away. Will deliver 12v. D.C. @ 2A (3A Surge).

Cat. M-9592 .. $25.00

BATTERY ELIMINATORS

SWITCHED VOLTAGE

Fully approved, switched voltage selection battery eliminator power supply. Select 6V. - 7.5V. - 9V. with the flick of a switch. This unit will give outputs up to 300ma. Suitable for radios, record players, cassette units etc. Complete with flex and plugs.

Cat. M-9525 .. $10.95

$12.50

12V. ELIMINATOR

An eliminator for equipment requiring 12 volt supply. Suitable for HANDHELD TRANSCEIVERS & BURGLAR ALARMS etc.

Cat. M-9550 .. $12.50

DC TO DC CAR CONVERTORS

$6.50

4 WAY CAR CONVERTOR

A universal adaptor that plugs into your car cigarette lighter socket. Allows low voltage equipment such as transistor radios, cassette units, portable record players, etc. to operate from the 12v. car battery. Suits neg. earth cars. Comes complete with 4 way plug assembly and lead to fit all types of DC equipment sockets. Output switched 6v – 7.5v – 9v. @ 300mA.

	1–9	10 up
Cat. M-9582	$6.50	$5.90

$9.95

HI POWER CAR CONVERTOR

As above but has greater output. Suitable for battery powered equipment requiring more current. e.g., large cassette units etc. C/W 4 way plug. 6v – 7.5v – 9v @ 800mA.

Cat. M-9584 .. $9.95

SEE THE EXCITING NEW DICK SMITH METERS ON PAGE 28

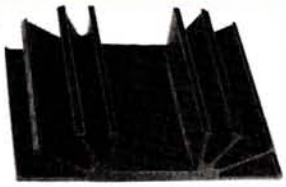
HEATSINKS

POWERFIN FOR TO-3

DICK'S VALUE PLUS SPECIAL

85¢

This TO-3 heatsink gives the greatest possible heat dissipation in the smallest possible space.
– unique staggered fin design gives a high air to metal ratio.
– thermal rating approx. 5°C/Watt – measures only 50mm square by 25mm high.
– pre-punched to suit TO-3 case – black anodised finish.
Cat. H-3400 ..... 85c ..... 10 UP 70c



VALUE

FROM $2.70

HIGH EFFICIENCY POWER SINK

With its thick base and radial fan design this sink is able to dissipate huge amounts of heat.
Available in 75mm and 225mm lengths.
75mm Cat. H-3422 ..... $3.00 ..... 10 UP $2.70
225mm Cat. H-3426 ..... $8.50 ..... 10 UP $7.50

ECONOMICAL POWERSINK

NEW MODEL

DICK'S VALUE PLUS SPECIAL

FROM $2.60

Flat mounting with fins top and bottom.
Available either undrilled or drilled to accept two power tranny's of most types including TO-3, TO-66, TO-126, TO-220.
Size; 75mm L X 102mm W X 25mm D
UNDRILLED Cat. H-3470 ..... $2.90 ..... 10 UP $2.60
PRE-DRILLED Cat. H-3471 ..... $3.40 ..... 10UP $3.00

VERSATILE POWERSINK

DICK SMITH 'POWERSINKS' WHEN THE HEAT'S ON!

FROM $4.25

The ingenious design of this heatsink enables it to be used mounted flat for maximum heat transfer or end on for convenience. The side fins have tongue and groove so that strips may be joined sideways. We are offering them undrilled or pre-drilled to accept 2 X TO-3's and most other power transistor configurations.

Size; 78mm L X 110mm W X 33mm D.
UNDRILLED Cat. H-3460 ..... $4.75 ..... 10 UP $4.25
PRE-DRILLED Cat. H-3461 ..... $5.25 ..... 10 UP $4.75

ROUND TO-5

ONLY 40c

Manufactured to exacting tolerances for snug fit to give best heat transfer. Massive body allows for quick warm up under any ambient conditions.
Cat. H-3412 ..... 40c ..... 10 UP 30c

SPECIAL

60¢

MINI ALUMINIUM

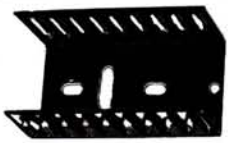
This very low cost heatsink suits all flat plastic pack semi-conductors. Features vertical flutes for maximum thermal efficiency. Suitable for PC Board mounting with transistors. SCR's and triacs.
Cat. H-3402 .....60c ..... 10 UP 50c

FLAG HEATSINK TO SUIT OC74, AC128, transistors
Cat. H-3480 .....11c .....10 UP 8c

UNIVERSAL

SPECIAL

80c



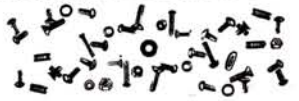
Universal hole pattern allows mounting of almost all 'power' semi-conductors. Ribbed walls and black anodised finish make for maximum efficiency.
Cat. H-3401 ..... 80c ..... 10 UP 70c

ASSORTED LUG PACK

$2.75

100 solderless lugs in popular sizes. These are crimp lugs but can be soldered if required. Ideal for speaker hook-ups, earth lugs, auto equipment and 101 other applications. Plated finish.
Cat. H-1994 ..... $2.75

ASSORTED SCREW & NUT PACK



$2.20

Contains over 200 pieces of the most popular small sizes of screws, nuts and washers. Ideal for the hobby workshop and servicemen working on imported equipment.
Cat. H-1680 ..... $2.20

ASSORTED SPRING PACK

$2.70

Between 150 and 200 springs in assorted sizes from tiny to 1cm dia. by 4cm long. Pack contains various compression and tension types. All are new manufacturer's overruns, samples etc. Some are worth over 30c each. Even at only 5c each the assortment is worth $9.00!
Cat. H-1690 ..... $2.70

NYLON NUTS AND BOLTS

Precision moulted from '66' white nylon. Fully insulated, will not shake loose, corrosion free, resist high temperatures. Light and tough. We now stock the following hard to get hardware so essential for transistor and heatsink use.

Description	Quantity in Pack	Cat. No.	Price per Pack
½" x 4BA cheese head	10	H-1012	55c
1" x 4BA cheese head	10	H-1022	65c
4BA hex. nut	12	H-1302	$1.10
4BA washer	12	H-1452	55c
½" x 6BA cheese head	10	H-1032	55c
1" x 6BA cheese head	10	H-1042	65c
6BA hex. nut	12	H-1312	$1.10
6BA washer	12	H-1462	55c

STEEL NUTS AND BOLTS

1/8" Whitworth Round Head Zinc Plated

3/8" long	25	H-1052	55c
½" long	25	H-1062	55c
1" long	20	H-1072	55c
1/8" hex. nut	30	H-1322	55c
1/8" shake proof washer	50	H-1472	55c
1/8" metal washer	50	H-1482	55c

SELF TAPPING SCREWS

CADMIUM PLATED STEEL

Description	Drill Hole Size	Quantity in Pack	Cat. No.	Price per Pack
No. 4 x ½"	40	25	H-1612	55c
No. 4 x ¼" long	40	25	H-1611	55c
No. 8 x ½"	30	25	H-1632	55c

BA SIZE CHEESE HEAD

now in convenient packs

Description	Quantity in Pack	Cat No.	Price per Pack
½" x 4BA	25	H-1082	55c
4BA hex. nuts (brass)	20	H-1332	65c
4BA flat washer (steel)	50	H-1488	55c
4BA shake proof washer	50	H-1486	55c
½" x 6BA	25	H-1092	55c
6BA hex..nuts (brass)	25	H-1342	65c
6BA Pack contains 12 of each ½" bolts, brass nuts and shakeproof washers. 36 in total.		H-1684	65c
8BA PACK contains 12 of each ½" brass bolts, nuts, washers, 36 in total		H-1682	$1.10

HARWIN SPACERS AND BRACKETS

55¢ *pack*

Made in England of high quality materials. Spacers are in nickel plated brass, brackets are in mild steel with cadmium plating. (To make spacers of different lengths simply stack).

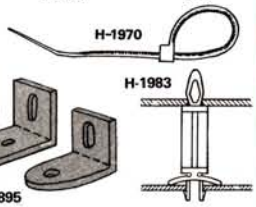
ROUND 4BA (1/8") CLEARANCE HOLE ¼" OD

Length	Quantity In Pack	Cat. No.	Price per Pack
1/4"	12	H-1831	55c
3/8"	10	H-1832	55c
1/2"	8	H-1833	55c
1"	6	H-1834	55c

HEXAGONAL 4BA TAPPED 1/4" OD

Length	Quantity In Pack	Cat. No.	Price per Pack
3/8"	6	H-1842	55c
1/2"	6	H-1843	55c
1"	4	H-1847	65c

BRACKETS



H-1970

H-1983

H-1897

H-1896 H-1895

(1/8" clearance) – Ideal for all projects where right angle mountings have to be made.

Length	Quantity in Pack	Cat. No.	Price per Pack
½"	6	H-1895	55c
2"	5	H-1896	55c
2¾"	4	H-1897	55c

CABLE TIES

Will take cable harness up to 20mm. or down to 2 single wires.
Cat. H-1970 20 in Pack $1.20

INSULATED SPACERS

Complete with screws.

Length	Quantity in Pack	Cat. No.	Price per Pack
15mm	5	H-1862	$1.20
25mm	4	H-1872	$1.20

GROMMETS

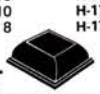
H-1719

PREVENT FRAYED CABLES AND LIVE CHASSIS

Black rubber heavy duty grommets – a must where cabling passes through a chassis hole.

Hole Size Required	Bore	Quantity in Pack	Cat. No.	Price per Pack
5/16"	7/32"	10	H-1712	55c
5/8"	1/4"	10	H-1716	55c
1/2"	3/8"	8	H-1719	55c

ADHESIVE RUBBER FEET



H-1745

These are terrific! No holes to drill. These handsome black feet really stick and give your project a quality finish.
You'll find dozens of uses, even on bought gear, so we've put them into convenient packs.

15mm x 5mm small square, 4 per pack	H-1745	65c
20mm x 8mm large square, 4 per pack	H-1749	65c

RUBBER MOUNTING FEET

Has 1/8" hole for mounting or can be glued with contact cement. Black rubber.

Quantity in Pack	Cat No.	Price Per Pack
8	H-1736	55c

CIRCUIT BOARD SUPPORTS

Designed to hold printed circuit board in position with sufficient clearance above the chassis. They snap into place, made of nylon, easily installed and removed by hand. Require 0.156" hole in PC board and 0.187" hole in chassis.

Length	Quantity in Pack	Cat No.	Price per Pack
3/8"	6	H-1981	65c
1/2"	4	H-1983	65c

CABLE CLAMPS

	Quantity in Pack	Cat. No.	Price per Pack
For cables up to 1/4" diam.	5	H-1965	65c
For cables up to 3/8" diam.	5	H-1967	65c

Heavy Duty Nylon - a must for terminating power cords and all cables

H-1965

H-1724

CORD CLAMP GROMMETS

This is a self locking grommet that maintains secure grip on the cable without the use of separate clamps. A grommet and clamp in one. Fits 3 core miniflex or equivalent cable size.
Hole Size 1/2" to 5/8" 4 Per Pack Cat. H-1724 55c

ZIPPY BOXES 3 NEW SIZES!

PROFESSIONAL QUALITY! PRECISION MADE! VALUE!

Tough, high impact styrene but easy to work . . . Moulded corner posts take self tappers . . . PCB and covers easy to fit . . . Sized matrix board panels available . . . (See in 'board' section of catalogue)

With 5 sizes to choose from you will find that most of your projects fit snugly into one of these boxes. (For large quantity prices please enq.)

		1-9	10 up
150 mm x 90 mm x 50 mm	Cat. H-2751	$2.50	$2.00
196 mm x 113 mm x 60 mm	Cat. H-2752	$3.75	$3.00
130 mm x 68 mm x 41 mm	Cat. H-2753	$1.95	$1.60
103 mm x 54 mm x 41 mm	Cat. H-2754	$1.75	$1.45
83 mm x 54 mm x 28 mm	Cat. H-2755	$1.50	$1.20

DIECAST ALUM. BOXES

WE'VE SEARCHED THE WORLD FOR THESE!

Precision die-cast boxes have always been expensive – until now. Imported by Dick, for the first time at a reasonable price. They have exclusive channelled inside walls for slide-in PCBs in any position. Fully screened to RF with lid on; will stand heat up to 1100°F!

Sizes in mm	Sizes in inches		1–9	10 up
190 x 60 x 110	7½ x 2¼ x 4¼	Cat H-2201	$7.50	$6.40
150 x 50 x 80	6 x 2 x 3	Cat H-2206	$6.00	$5.10
120 x 40 x 65	4¾ x 1½ x 2½	Cat H-2211	$4.90	$4.20
100 x 25 x 50	4 x 1 x 2	Cat H-2221	$3.00	$2.55

INSTRUMENT CASES

STRONG - BEAUTIFUL! SUITABLE FOR RACK MOUNTING.

Constructed of heavy gauge aluminium, finished in vinyl with natural aluminium front and rear panels. Supplied complete with smart deep chrome handles. Excellent for encasing amplifiers, instruments, etc.

Dimensions shown are DxHxW.

(sizes in mm)	(old inch size)		
203 x 102 x 153	(8 x 4 x 6)	Cat. H-2450	$14.50
203 x 102 x 254	(8 x 4 x 10)	Cat. H-2455	$16.00
228 x 76 x 203	(9 x 3 x 8)	Cat. H-2460	$14.50
228 x 76 x 305	(9 x 3 x 12)	Cat. H-2465	$16.00

PLASTIC CASE

As used with the Charger 4 and the pattern generator this is a very tough versatile case in two halves with air vent slots ideally suited for mounting instruments, power supplies, small PA's and so on.

150 mm x 180 mm x 80 mm Cat. H-2515 .. .. $5.25

INSTRUMENT BOXES

Extruded heavy gauge aluminium case with removable plates, very strong and beautifully made with all holes drilled and countersunk. Precision manufacture ensures effective screening.

(sizes in mm)	(old inch size)		
102 x 76 x 25	(4 x 3 x 1)	Cat. H-2410	$3.85
102 x 76 x 51	(4 x 3 x 2)	Cat. H-2415	$4.50
102 x 76 x 76	(4 x 3 x 3)	Cat. H-2420	$4.90
102 x 76 x 102	(4 x 3 x 4)	Cat. H-2425	$5.50
102 x 76 x 153	(4 x 3 x 6)	Cat. H-2430	$6.00

ALUMINIUM BOXES

Two piece boxes made of 16 gauge natural bright finish aluminium. Each section forms 3 sides with flanges ready for drilling to suit your requirements – extremely versatile and useful.

(sizes in mm)	(old inch size)		
102 x 51 x 70	(4 x 2 x 2¾)	Cat. H-2300	$1.75
102 x 54 x 42	(4 x 2⅛ x 1⅝)	Cat. H-2305	$1.75
102 x 58 x 58	(4 x 2¼ x 2¼)	Cat. H-2310	$1.80
127 x 58 x 58	(5 x 2¼ x 2¼)	Cat. H-2315	$2.00
127 x 102 x 76	(5 x 4 x 3)	Cat. H-2320	$2.50
133 x 76 x 54	(5¼ x 3 x 2⅛)	Cat. H-2325	$2.30
146 x 114 x 89	(5¾ x 4½ x 3½)	Cat. H-2330	$3.20
178 x 153 x 114	(7 x 6 x 4½)	Cat. H-2335	$5.50

ALUMINIUM SHEET

This is blank 16 gauge bright aluminium sheet ideal for making your own heat sinks, chassis and boxes when stock models do not suit.

(Size in mm)	(old inch size)		
305 x 305	(12 x 12)	Cat. H-2560	$2.70
158 x 158	(6 x 6)	Cat. H-2558	$1.10

HEEGER GLAMOUR BOXES

Attractive aluminium alloy with color finish. Two piece construction for quick assembly. Cover slides off exposing all of the inside of the cabinet simply by removing 4 screws. This design permits installation of maximum number of components and makes wiring very easy. Complete with rubber feet. Makes a very attractive case for small instruments, intercoms, PA's and amplifiers.

(Sizes in mm)	(old inch size)			
102 x 127 x 76	(4 x 5 x 3)	Blue	Cat. H-2540	$5.50
102 x 153 x 76	(4 x 6 x 3)	Beige	Cat. H-2545	$5.75
127 x 153 x 102	(5 x 6 x 4)	Biscay Blue	Cat. H-2550	$7.00
102 x 153 x 102	(4x6¼x4)	Sloping front	Cat. H-2700	$6.50

ATC BOXES

Attractive grey plastic case with sloping front of anodised aluminium – ideal for small instruments, power supplies, meter boxes etc. Supplied complete with panel mounting screws.

As used in our audio signal generator Cat. K-3040, see page 25 in our kit section.

(size in mm)	(old inch size)		
178 x 127 x 114	(7 x 5 x 4½)	Cat. H-2500	$6.90

DELUXE METAL CABINETS

AS LOW AS $1.50

Beautifully made with aluminium base and 18 gauge steel covers. Fitted with rubber feet, louvered for ventilation with attractive two tone finish.

These make excellent cabinets for power supplies, switch panels remote control units and many other applications.

Size in mm H	W	D	Cat. No.	1-9	10 up
56	83	102	H-2741	$2.20	$2.00
61	103	150	H-2742	$3.00	$2.60
76	134	150	H-2743	$3.60	$3.10
70	160	184	H-2744	$3.80	$3.40

CABINETS PARTS DRAWERS

CAPSTAN CABINETS

RUST PROOFED ZINC STEEL

GREY ENAMEL FINISH

DRAWER SAFETY STOP

Additional cabinets can simply be slid on and locked by toungue and slot to make a solid cabinet to suit your requirements. Cabinets can stand on bench or hang from the wall to conserve space. Supplied complete with dividers and labels.

(Size in mm)

293 w x 51 h x 152 d 4 drawer (small) Cat. H-2570 .. .. $4.00

293 w x 76 h x 152 d 4 drawer (large) Cat. H-2575 .. .. $5.50

PARTS DRAWERS

Frankly, we have seen a lot of component drawers come and go over the years. In our opinion, these are the best ones that we have come across. Check these features.

Large handle on the front of each drawer. Special index card slot moulded into handle for labelling. Outside of boxes have precision dovetail ways so that boxes may be securely fitted together. Wall or bench mountable. Trays do not seize inside box as many inferior other types do.

All boxes in smart white high impact plastic with the drawers moulded in a smart red colour.

TWO TYPES

One drawer per box Cat. H-2584 .. .. $1.20

Two drawers per box Cat. H-2585 .. .. $1.20

Overall box dimensions in mm. – 114 w x 57 h x 130 d

FUSES

We hold a wide range of fuses - remember the lower the current rating of the fuse you use the greater the protection. Type 3AG is the most common size.

SIZE M205 (approx. 20mm L x 5mm diam.) Suit most Japanese equipment. Available in following current ratings:

250 mA, 500 mA, 1A, 2A, 5A

Cat. S-4410 .. .. 30c 10 up 25c

SIZE 3AG (approx. 32 mm L x 6 mm diam).

100 mA, 150 mA, 250 mA, 350 mA, 500mA.

Cat. S-4463 .. .. 20c 10 up 15c

1A, 1·5A, 2A, 3A, 5A, 7·5A, 10A, 15A, 20A, 25A, 30A, 35A

Cat. S-4483 .. .. 15c 10 up 10c

IN LINE FUSE HOLDER

Ideal for all automotive or marine work, car stereo, car radio, transceivers, etc. Takes standard 3AG fuse. Coil spring and plated contacts assure positive contact. 64 mm long. Complete with 0.6 meter extension lead at no extra charge. All plastic casing.

Cat. S-4277 .. .. 60c 10 up 40c

SAFETY FUSE HOLDER

LOW DIRECT IMPORT PRICE

Handsome black square panel mounting fuse holder with coloured 'push in' insert. The yellow fuse carrying insert is released by a touch for easy fuse replacement but will not fall out.

Give your project a modern finish with one of these.

Cat. S-4204 .. .. 75c 10 up .. 65c

3AG BAYONET FUSEHOLDER

Chassis or panel mounting fuse holder, accepts standard 3AG fuse. 13mm mounting hole.

Cat. S-4206 .. .. 70c .. 10up 65c

CHASSIS OR CIRCUIT BOARD FUSE HOLDERS

The ideal inexpensive holder.

			10 up
Type 3AG	Cat. S-4257	25c	20c
Type OO	Cat. S-4258	25c	20c

P.C. — MATRIX — VERO — TERMINAL STRIPS

CIRCUIT, MATRIX, STRIP BOARDS

(NOTE: PROJECT PRINTED CIRCUIT BOARDS ARE IN KIT SECTION)

DESIGN BOARDS

Already printed with various patterns for a variety of applications these boards will greatly simplify project construction where you are working it out as you go.

Circuit boards make life easy for you by giving you an organised, convenient base to build on.

We offer a range of high quality boards, many built to Dick Smith's own exacting specifications determined by many years in electronics and in satisfying many thousands of customers' requirements.

PLUG IN IC BOARD

Fantastic little plug in printed circuit board, 0.1" pin spacing to directly accept up to 14 x 14 pin or 16 pin IC's or up to 20 'Mini-Dip' IC's. Lands are silver plated and a 24 way 0.1" plug is etched into one end of the board so that it can be used directly with a standard 24 way edge connector. An excellent high quality board for hobbyists and engineers alike.

0.1" spacing, 60 mm W x 100 mm L.

Cat. H-5610 .. .. $1.20 10 up $1.00

DIL BOARD

Specially made for us to take up to 5 DIL IC's up to 16 pin. Makes assembly much easier than birdsnesting for prototypes, etc. A quality, predrilled board with deep etched copper lands.

170 mm x 60 mm.

Cat. H-5602 .. .. $1.50 10 up $1.20

DICK SMITH DESIGN BREADBOARD

This is an extremely useful board etched and drilled in such a unique pattern that it will accommodate almost all types of integrated circuits and transistor packages as well as passive parts. Each board has over 500 holes drilled on a 0.1" grid and over 200 separate silver plated lands as well as in-built buss bars. It will even take the wide 24, 28, 36 and 40 pin DIL packages as well as the 8, 14 and 16 pin packages.

0.1" spacing x 80 mm x 127 mm.

Cat. H-5606 .. .. $1.90 10 up $1.60

PRINTED MOUNTING STRIP

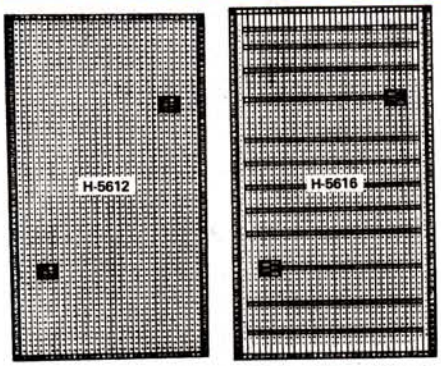
A really handy 47 way mounting strip for packing those resistors capacitors and many other components in neatly. Terminals are numbered for easy circuit identification.

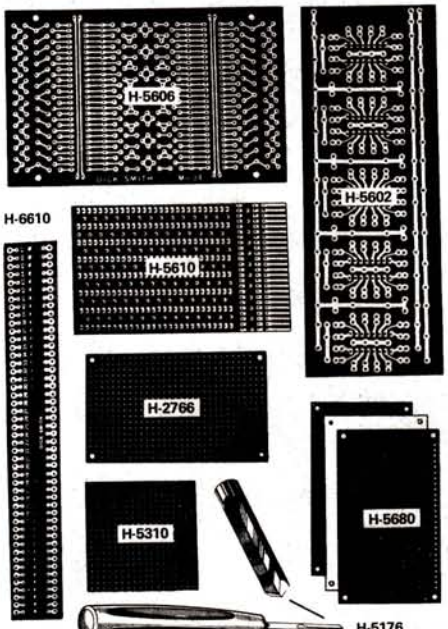
Cat. H-6610 .. .. $1.50 10 up $1.30

PRINTED CIRCUIT BLANKS

Pre-cut high quality P.C. boards with permanently bonded copper on one side — available in bakelite or heavy duty fibreglass.

Size	Cat. No.	Price
150 mm x 75 mm Bakelite	H-5500	65c
150 mm x 150 mm Bakelite	H-5505	$1.20
300 mm x 300 mm Bakelite	H-5510	$2.95
150 mm x 75 mm Fibreglass	H-5540	$1.00
150 mm x 150 mm Fibreglass	H-5545	$2.10
300 mm x 300 mm Fibreglass	H-5550	$5.20





PRINTED CONDUCTOR STRIP BOARD

A quality silver plated copper strip board similar to English Veroboard. Continuous pre-drilled stripping on a high grade insulator; packed in a plastic sheath to assure you of an untarnished, easy-to-solder surface.

Size (mm) 95 W x 304 L x 2.54 (0.1in) pitch.

Cat. H-5112 .. .. $4.50 10up $4.00

PRINTED STRIP BOARDS

DICK SMITH SPECIFICATION — PLATED STRIPS — ALPHA NUMERIC GRID

The most versatile board of the lot! Etched copper strips are pre-drilled and plated for soldering ease. These boards have an alpha numeric grid to facilitate positive pin identification.

2.54 (0.1") spacing x 76 mm x 153 mm

Cat. H-5612 .. .. $2.60 10 up $1.85

2.54 (0.1") spacing x 76 mm x 76 mm

Cat. H-5614 .. .. $1.20 10 up $1.00

VERSA STRIP BOARD

As H-5612 printed strip board, but with pre-cut short tracks to make it ideally suited to multi IC work. Plated strips, packed in plastic envelope. Size 76mm x 153mm; 2.54mm (0.1in) spacing.

Cat. H-5616 .. .. $2.60 10 up $2.20

PANEL & BOARD PACK

This pack contains 3 separate sheets of commonly used materials in electronic projects:

1 sheet 22 g Aluminium (153 x 90mm)
1 sheet 16g black Bakelite (153 x 90mm)
1 sheet 16g Matrix board 0.15" pitch (153 x 90mm).

All of these sheets fit exactly into the H-2751 Zippy Box to make perfect panels for your projects. Aluminium for front panels, bakelite for front panels, insulation; matrix board for circuit boards.

Cat. H-5680 .. .. $2.00

PERF BOARD

Fits the H-2751 Zippy Box exactly and is even pre-drilled to match the screw holes. 2 mm diameter holes are in 4.3 mm centres to allow plenty of room for the soldering iron when building. This size board is ideal for many projects and comes to you protected in its own plastic bag.

90 mm W x 150 mm L

Cat. H-2766 .. .. 85c 10 up .. 75c

MATRIX BOARD

Unexcelled for proto-types, bread boards, hobby or science projects. Made of tough phendic with punched holes.

2.54 (0.1") spacing x 76 mm x 76 mm

Cat. H-5310 .. .. $1.30

BOARD PINS

These pins push through 0.1" (2.54 mm) pitch matrix board or vero board to form solder terminals on both sides of the board.

Pack of 50 pins Cat. H-5590 .. .. $1.50

SPOT FACE CUTTER

Removes copper quickly and neatly from all printed circuit and Vero Boards.

Cat. H-5176 $3.20

PC BOARD MATERIALS

PRINTED CIRCUIT KIT

Contains everything you need to produce professional printed circuit boards. Complete with detailed instruction manual 150 mm x 100 mm board, template, chemicals and tools.

Supplied in a sturdy plastic case which also serves as etching tank.

Cat. H-5660 .. .. $6.90

ETCHING KIT

Manufacture your own printed circuit boards with this complete kit. Contains full instructions, bituminous paint, ferric chloride, resin and brush. Full details in B-4500 booklet.

Cat. H-5650 .. .. $2.50

DALO MARKING PEN

Essential for precision marking of boards prior to etching. Unique press to mark feature ensures complete control.

Cat. T-5170 .. .. $2.25

FERRIC CHLORIDE

4 oz jar ferric chloride Cat. No. H-5652 .. .. $1.90

BITUMINOUS PAINT

Tube bituminous paint Cat. No. H-5654 .. .. 99c

PC BOOKLET

A guide to PC board making for the home constructor.

Cat. B-4500 .. .. 25c

P.C. BOARD TRANSFERS

This kit has been developed for simply and quickly fabricating P.C. boards of professional quality. The etchant resistant, dry transfer sheets include linear patterns for representing straight conductor runs, T sections for junctions, ellipses, teardrops, lozengers, small arrows, and in addition there are images for common component symbols. Packet contains three pages of P.C. images. One page includes 1/8" lines and two pages of 1/16" lines. Easily applied to the circuit board by burnishing the face of the transfer with a pencil or a ball point pen. The resist works well with all types of etchants.

Cat. H-5656 .. .. $3.50 per packet

WORD LETTERING SET

Contains hundreds of pre-set words, letters, numerals and symbols for quick easy labelling of electronic equipment. Not a Decal — Not a Tape. Easily applied by burnishing the face of the transfer with a pencil or a ball-point pen. Used by Electronic Engineers, Radio Amateurs, Technicians, Designers and Builders. Give that "Do-it-yourself" project a professional look.

Note: Photo shows only first page of many in pack.

Size 1 (3.1 mm high) Black lettering Cat. N-1800 .. .. .. $4.75
Size 2 (2.3 mm high) Black lettering Cat. N-1804 .. .. .. $4.75
Size 2 (2.3mm high) White lettering Cat. N-1806 .. .. .. $4.75

TERMINAL STRIPS

BARRIER STRIPS

Each terminal has two screws and two pre-tinned solder lugs for great versatility. Mounting screw hole each end of tough plastic base.

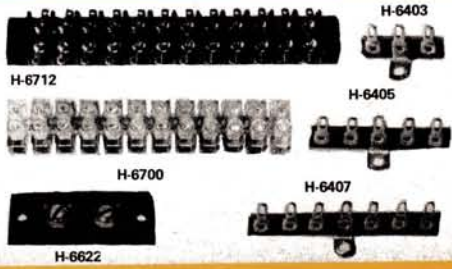
4 way	Cat. H-6704 .. .. 85c	10 up	.. .. 70c
8 way	Cat. H-6708 .. .. $1.75	10 up	.. $1.50
12 way	Cat. H-6712 .. .. $2.20	10 up	.. $2.00

MAINS TERMINAL STRIPS

12 WAY STRIP

This is the popular nylon chocolate block type with 2 screws per terminal which can be used as a 12 way or cut up into sections of 2 as each section has a mounting hole. 240 Volt AC Rating.

Cat. H-6700 .. .. 70c 10 up 60c



TAG STRIPS SMALL — VERY LOW PRICES

These are very neat little strips with pre-tinned solder lugs firmly attached to phenolic board. The center lug in each case extends to a screw bracket to make a convenient earth connection if required.

Type	Cat. No.	1-9	10-99
3 lug	H-6403	20c	15c
5 lug	H-6405	25c	20c
7 lug	H-6407	30c	25c

SCREW TERMINALS

Popular strips with convenient screw terminal on one side of phenolic strip with mounting holes at each end.

Type	Cat. No.	1-9	10 up
2 way	H-6622	25c	20c
4 way	H-6624	45c	40c

METAL KNOBS

Are diamond machined from solid metal with set screws conforming to AS standard 0.25" shafts. Finish is silver clear anodised. (dimensions are given in mm, diameter D x height L

H-3744 A little dearer ! Yes but Superb Quality !

A beautiful satin finish large knob with multiple flats around diameter for comfortable natural grip. Has black line indicator. A superb knob for modern finish equipment.
30 mm D x 17 mm L.
Cat. H-3744 1-9 .. $1.10 10up .. $1.00

H-3742

As H-3744 but of medium size.
25mm D x 17mm L
Cat. H-3742 .. 1-9 .. 95c 10 up 90c

H-3740

As H-3742 smallest in diameter. It is a matching knob and the combination of the 3 sizes make an excellent choice for amplifiers. 18 mm D x 18 mm L.
Cat. H-3740 .. 1-9 .. 85c 10 up .. 75c

H-3730

Beautiful black larger knob with silver shoulder and white marker. It features deep positive grip flutes. A very attractive unit.
21.5 mm D x 22 mm L.
Cat. H-3730 .. 1-9 .. 95c 10 up .. 85c

H-3734

All silver knob with black radius marker. The outer shoulder has fine serrations that extend down a third of the length. Ideal for equipment where fine adjustment is required. 21 mm D x 18 mm L.
Cat. H-3734 .. 1-9 .. $1.00 10 up .. 90c

H-3726

Black body, silver circumference shoulder white radius marker. Feature deep flutes, with silver shoulders. Suitable for instruments and audio equipment. 16 mm D x 17 mm L.
Cat. H-3726 .. 1-9 .. 75c 10 up .. 70c

H-3720

The smallest of our aluminium range, all black finish with silver shoulder and white radius marker. Fine flutes extend down 80% of the body. A very attractive amp. or instrument knob.
14 mm D x 12 mm L.
Cat. H-3720 .. 1-9 .. 55c 10 up .. 50c

PLASTIC KNOBS

Moulded of finest thermo setting plastic with a brass bush and set screw to take the usual ¼" shaft. Mainly intended for instruments etc. and give that added quality look without costing a fortune. (Dimensions given in millimeters diameter x height).

H-3760

The biggest knob in the range. Knurled with a recessed metallic insert and very neat little black arros. (40 x 16).
Cat. H-3760 .. 55c 10 up .. 45c

H-3762

A handsome little knob with skirt and dot for pointer. Knurled finger grip and white ring on top. (19 x 13).
Cat. H-3762 .. 35c 10 up .. 32c

H-3764

Tiny and tall this one. Just right for panels where space is limited. Knurled with silver metal trim ring at top. (13 x 19).
Cat. H-3764 .. 40c 10 up .. 35c

H-3766

A well known favourite for years. Very positive grip, pointer type knob with skirt. (32 x 14).
Cat. H-3766 .. 45c 10 up .. 40c

H-3768

With a fluted finger grip. Pointer on top with additional dot on the sloping skirt. Pointer is deeply inlaid so will not wear off. (24 x 15).
Cat. H-3768 .. 40c 10 up .. 35c

H-3770

Instrument knob with wide, calibrated skirt engraved with figures 0 to 10. Skirt is in polished metal with black lettering. (38 x 31).
Cat. H-3770 .. 70c 10 up .. 65c

H-3772

Another one with deep fluting. This time the pointer runs down the side on to the skirt and across the top to handsome silver polished insert. (26 x 14).
Cat. H-3772 .. 50c 10 up .. 45c

DIAL DRIVES AND VERNIERS

VERNIER DIAL

Very high quality for precision tuning. Front panel mounting. 50 mm in diameter.
Cat. H-3900 .. $4.90

JABEL JB 6/IN DIAL

Calibrated 0-100 over 180° complete with 6:1 ratio dial, knob, cursor and mounting hardware.
Cat. H-3910 .. $9.60

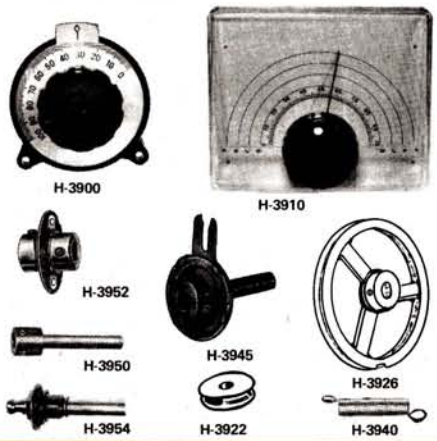
JABEL JB 36/IN DIAL

Exactly the same as above but with dual ratio 6:1 and 36:1 drive.
Cat. H-3912 .. $13.00

EXTENSION SHAFTS

Machined from brass — extends ¼" shaft up to 2".
Cat. H-3950 .. $1.30

Flexible shaft coupling. ¼" for use where shafts do not exactly line up.
Cat. H-3952 .. $2.20



DIAL DRIVE PARTS

BRASS DIAL PULLEYS

3/8" diameter x 1/8" hole.
Cat. H-3922 .. 19c

DIAL DRUM

2" diameter round dial drum.
Cat. H-3926 .. 90c

DIAL CORD

Spool approx. 25 metres.
Cat. H-3934 .. $2.30

DIAL SPRINGS

RGS universal
Cat. H-3940 .. 20c. Bulk price 10 up .. 15c

PLANETARY MECHANISM

J1 5:1 Ratio.
Cat. H-3945 .. $3.00

DIAL DRIVE SPINDLE

Spindle and bush assy. for dial drive. Has 1/4" shaft for knob.
Cat. H-3954 .. $1.25

BEZELS AND LIGHT GLOBES

12V BEZEL

Extremely attractive medium sized bezel available in both green and red. Even though this bezel is round it features a flat top on the indicator which makes it look extremely modern. The surround is deep chrome plated. Supplied with 12 volt miniature globe. Mounting hole required 11 mm. State colour when ordering.
Cat. S-3510 .. 60c 10 up 50c

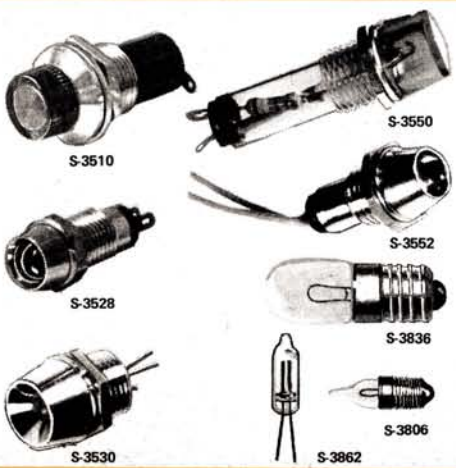
MINIATURE LED BEZEL

For great reliability, miniature size, and low current drain we would recommend this bezel. It features a deep chrome plated surround and requires only 20 mA at 2 volts to operate. For higher voltage operation simply use series resistor (see data section). Mounting hole required only 7 mm.

			10up
RED	Cat. S-3528	$1.20	$1.10
GREEN	Cat. S-3529	$1.65	$1.55

DUAL LED INDICATOR

Two LEDS in one bezel, one RED one GREEN. Ideal for two state indication on solid state equipment, particularly suited to logic work on TTL etc. Chrome plated surround, quality finish. Operates on 1.3 to 1.5 volts @ 25 to 30mA. (50mA. max.) 8mm. mounting hole.
Cat. S-3530 .. $2.00 10up $1.80



NEON INDICATOR

240 Volt AC, an attractive simple bezel which uses a minute amount of power. Ideal for amps, power supplies, etc. Mounting hole requires 9 mm.
Cat. S-3550 .. 70c 10 up 60c

MINIATURE NEON BEZEL

(90 Volt). This chrome bezel with red lens mounts in a 7 mm hole. For the builder who requires a small, neat indicator this is the one. It's so small there is no room for the usual inbuilt resistor. This can be added externally (approx. 220K, ¼ watt for 240 V AC)
Cat. S-3552 .. 80c 10 up 70c

GLOBES

Sub Miniature "Lilliput" suit type S-3510 bezel and other applications. Size approx. 12 mm long x 6 mm diam.

6 Volt	Cat. S-3836	30c	10 up 25c
12 Volt	Cat. S-3842	30c	23c

Miniature Edison Screw (M.E.S.) "Dial Lamp" type globes

6-3 Volt	Cat. S-3806	25c	22c
12 Volt	Cat. S-3812	30c	27c

Socket for M.E.S. Globes
Cat. S-3880 .. 32c 29c

NEON PIGTAIL

Small "Pigtail" type neon with a multitude of uses. Striking voltage 70-90V DC at 600μA — use 270K resistor for 240V operation.
Cat. S-3862 .. 25c 10 up 20c

PLUGS AND SOCKETS

PHONE PLUGS AND SOCKETS

Literally hundreds of uses in most types of audio circuits and sound systems wherever simple, reliable connections and disconnects are required.

Type	Cat. No.	1-9	10 up
Sub-miniature 2.5 mm phone plug — white	P-1125	25c	21c
3.5 mm easy to solder phone plug	P-1132	30c	25c
PMG type 6.5 mm phone plug	P-1160	60c	50c
Metal 6.5 mm phone plug	P-1162	70c	65c
Stereo 6.5 mm phone plug	P-1166	65c	50c
Metal stereo 6.5 mm phone plug	P-1168	75c	70c
2.5 mm panel socket	P-1220	20c	18c
3.5 mm panel socket	P-1231	25c	20c
3.5 mm line socket	P-1234	32c	28c
6.5 mm panel socket	P-1261	34c	25c
6.5 mm line socket	P-1264	48c	45c
6.5 mm stereo panel socket	P-1266	70c	60c
6.5 mm stereo panel socket with DPDT switch	P-1276	80c	70c
6.5 mm line stereo socket	P-1286	65c	55c

RCA PLUGS AND SOCKETS

These are the ever popular center pin and sleeve connectors with so many applications and so easy to use.

Type	Cat. No.	1-9	10 up
Line socket — red or black	P-1410	30c	25c
Plug — red or black	P-1420	30c	25c
Panel socket — screw mount	P-1430	35c	32c
Panel socket on plastic base	P-1440	32c	28c
Twin panel sockets on plastic base	P-1442	50c	42c
4 way panel sockets on plastic base	P-1444	93c	75c
6 way panel sockets on plastic base	P-1446	$1.25	$1.00

DIN PLUGS AND SOCKETS

Yes, these are the famous 'DIN' European Audio connectors made to exacting specifications, fully shielded with plastic 'pull on' covers — suit most of the big name European equipment.

Type	Cat. No.	1-9	10 up
2 pin line plug	P-1520	49c	40c
2 pin panel socket	P-1522	35c	30c
2 pin line socket	P-1524	40c	35c
3 pin line plug	P-1530	55c	49c
3 pin panel socket	P-1532	48c	42c
3 pin line socket	P-1534	68c	62c
5 pin line plug — standard 180°	P-1550	60c	53c
5 pin panel socket — suit P-1550	P-1552	45c	40c
5 pin line socket — suit P-1550	P-1554	72c	62c

DC PLUGS AND SOCKETS

Type	Cat. No.	1-9	10 up
2.1 mm power plug	P-1641	35c	25c
2.5 mm power plug	P-1645	35c	25c
2.1 mm panel socket to suit P-1641	P-1661	55c	50c
2.5 mm panel socket to suit P-1645	P-1665	55c	50c

AUDIO CONNECTORS

The highest quality connectors available essential for trouble free audio connections. Commonly known as Cannon connectors.

3 pin line socket	Cat. P-1620	$3.20
3 pin panel plug	Cat. P-1622	$3.00
3 pin line plug	Cat. P-1624	$3.40
3 pin panel socket	Cat. P-1626	$3.84

MIC PLUGS AND SOCKETS

Type	Cat. No.	1-9	10 up
Single plug	P-1810	70c	55c
Panel socket to suit P-1810	P-1855	75c	60c
4 Pole metal panel mt. plug	P-1824	$1.20	$1.00
Line socket suit P-1824	P-1834	$1.75	$1.45
2 pole heavy duty metal plug and socket	P-1860	$1.90	$1.40

BANANA SOCKETS

The 4 mm banana socket is the standard terminal on all better quality instruments, power supplies, etc. They ensure a firm connection with extremely low contact resistance. The P-1730 terminal is particularly useful in that it combines the banana socket with a binding post to facilitate rapid connections.

Type	Cat. No.	1-9	10 up
4 mm standard plug - red or black	P-1710	25c	20c
4 mm standard socket - red or black	P-1720	30c	26c
4 mm banana socket with binding post - red or black	P-1730	35c	30c

CAR CIG LIGHTER PLUG

Extremely handy for operating recorders or any other 12 Volt appliances in your car.

Cat. P-1675 .. .. 65c 10 up 60c

CAR RADIO ANTENNA

	Cat. No.	1-9	10 up
Antenna plug	P-2000	35c	25c
Antenna socket	P-2004	35c	30c

LOW COST COAXIAL FITTINGS

Handy insulated coaxial connectors in both aluminium and plastic for TV, radio and instrument use. 75 ohms.

Type	Cat. No.	1-9	10 up
Line plug	P-2020	55c	45c
Line socket suit P-2020	P-2030	$1.00	90c
Panel socket suit P-2020	P-2040	65c	60c
PCB mount socket suit P-2020	P-2060	40c	35c
Line on panel joiner suit P-2020	P-2070	55c	50c
Line plug — plastic	P-2021	40c	35c

BNC COAXIAL FITTINGS

BNC line plug — suitable for RG58RU cable.

Cat. P-2210 .. .. $1.60 10 up .. $1.40

BNC panel socket accepts P-2210

Cat. P-2220 .. .. $1.60 10 up .. $1.40

BNC socket to UHF plug adapts any BNC plug to any UHF socket. e.g. P-2210 to P-2340.

Cat. P-2420 .. .. $3.00

UHF COAXIAL FITTINGS

We are proud to present this complete range of plugs sockets and adapters for any UHF connecting application.
Now you can buy the right one for the job .

Type	Cat. No.	1-9	10 up
UHF (PL259) coax line plug	P-2310	$1.45	$1.25
Panel socket to suit P-2310	P-2340	$1.45	$1.00
Reducing adapter for P-2310	P-2360	50c	45c
Adapter PL259 socket to RCA plug	P-2364	$1.50	$1.20
Adapter PL259 socket to 3.5 mm plug	P-2366	$1.50	$1.20
UHF joiner - joins 2 x P-2310	P-2380	$1.50	$1.25
Right angle adapter - PL259 plug to PL259 socket	P-2382	$2.85	$2.45
'TEE' connector — joins Joins 2xP-2310 & 1xP-2340	P-2384	$3.25	$3.00
UHF Panel socket, single hole screw mount	P-2342	$1.10	95c

300 OHM TV RIBBON PLUG AND SOCKET SET

Designed to mount on wall or skirting board for professional connection of 300 ohm twin ribbon. Complete with mounting screws.

Cat. P-2080 .. .. 80c

Plug of above set. Cat. P-2082 .. .. 30c

VALVE SOCKETS

Type	Cat. No.	1-9	10 up
7 pin miniature socket	Cat. P-4640	75c	70c
9 pin miniature socket	Cat. P-4642	80c	75c

MULTIPOL CONNECTORS

The new inexpensive Australian made connectors with gold plated contacts rated up to 5A and 1000 V. The ingenious design enables the connectors to be adapted from panel mounting for line use simply by fitting a cover.

Type		
23 way plug	Cat. P-2700	$2.20
23 way socket	Cat. P-2710	$2.20
8 way plug	Cat. P-2720	$1.40
8 way socket	Cat. P-2730	$1.70
Cover to suit both 8 & 23 way plugs and sockets	Cat. P-2740	$3.00
Latching clamp	Cat. P-2745	$1.20

REDLINE PC EDGE CONNECTOR

These are designed for conventional "plug-in" connection of 1/16" thick P.C. or Dick Smith strip board.
Contacts are of gold plated tintillate bronze, rated at 5A DC standard 0.1" spacing. Supplied complete with mounting feet and polarising key. May be mounted in line to increase contact number.

Type	Cat. No.	1-9	10 up
16 way edge connector 0.1" Pitch	P-2816	$2.00	$1.80
24 way edge connector 0.1" pitch	P-2824	$3.00	$2.70

QUICK CONNECT TERMINALS

Red and black plastic covered spring loaded terminals for instant connect and disconnect with solder lug on underside of phenolic mounting board.

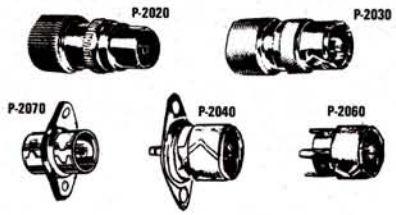
2 way Cat. P-1764 .. .. 60c
4 way Cat. P-1765 .. .. $1.20

UTILUX CONNECTORS

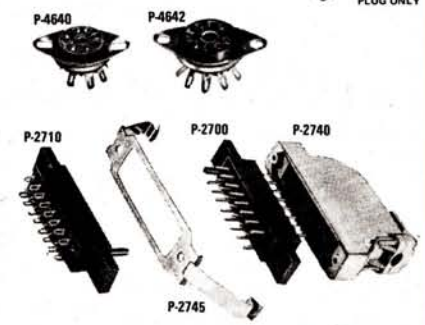
These are essential for most types of circuits where temporary and screw connections are required.

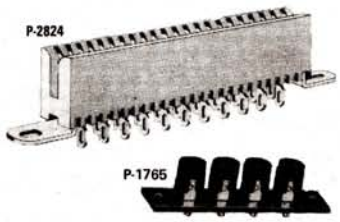
Type	Cat. No.	Quan. in Pack
Quick connector H-1071	P-5012	10
Male connector H-1925 for P-5012	P-5016	10
Cover H-1135 for P-5012, P-5016	P-5022	10
Double adapter H-1909	P-5026	6
Round lug — H-1291 3/16" hole	P-5032	12
Mini connector — H-1129	P-5036	15
Bullet connector — H-852	P-5042	10
Assorted solder lug pack. 1/8" hole	P-5044	50
Pin Clip c/w nail for mains cable	H-1920	each 3c

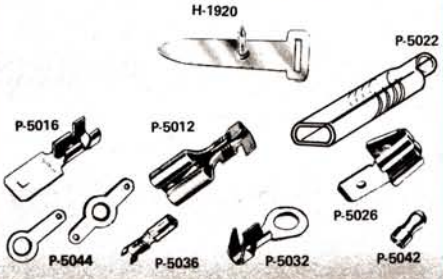
ALL PACKS 55¢



SEE PAGE 10 FOR OUR RANGE OF QUALITY AUDIO ADAPTOR PLUGS AND AUDIO PATCH FLEXIBLE CABLES AND ACCESSORIES







MOLEX PINS

MAKE YOUR OWN IC SOCKETS

These are available in sections of 50 pins on a metal strip which assists in placing the pins while soldering and is then simply broken off.

Pack of 50 Cat. P-4502 .. .. $1.20

IC SOCKETS

Type	Cat. No.	1-9	10 up
8 pin Mini DIP	P-4080	40c	35c
14 pin DIL	P-4140	50c	45c
16 pin DIL	P-4160	60c	55c
18 pin DIL	P-4180	85c	70c
24 pin DIL	P-4240	$1.20	90c
8 pin round	P-4280	$1.00	90c

NEW BIMBOARD BREADBOARD

A new breadboard system similalr to P-4615. It will accept component leads between .25mm (.01") and .85mm (.035") contact spaced at 2.54,, (.1") are capable of carrying 1 Amp. Breadboard section has 47 horizontal rows of 5 interconected sockets set side of the central channel, with each row and line being designated by a number or letter. The total socket complement of the board is 550. Each Bimboard is packed with a bracket to mount such components as pots, switches bezels etc. Each Bimboard is designed that they can be interlocked with each other when more complex designed one is called for. In all, a most versatile experimenters tool.

Cat. P-4612 .. .. $22.50

IC BREADBOARDS

Precision molded high impact plastic housing. Non corrosive, high tensile strength spring contacts.
Accepts wire gauges from #22 to #26 and maintains minimum contact resistance over the range.
Expected contact life over 10,000 insertions.
Signal Circuit frequencies in excess of 30 MHz can be accommodated.
Save time and worry in experimentation with these high quality boards.

Type
Mini IC Cat. P-4615 .. .. $5.00

TRANSISTOR SOCKETS

Type	Cat No.	1-9	10 up
TO18 – Suit BC108, AC127, etc.	P-4008	25c	20c
TO5 – Suit 2N3053, etc.	P-4015	55c	50c
TO3 – Suit 2N3055, etc.	P-4023	40c	35c

CRYSTAL SOCKETS

Type D	LARGE	Cat. P-4710	45c	40c
Type K	SMALL	Cat. P-4720	50c	45c

McMURDO "Q" RANGE

Excellent for heavy duty connections. Very rugged construction, extremely low contact resistance and pre-tinned terminals to make soldering easier.

2 Pin Line plug	P-3110	40c	35c
2 Pin chassis socket for P-3110	P-3115	40c	36c
4 Pin line plug	P-3120	40c	35c
5 Pin line plug	P-3125	45c	40c
5 Pin chassis socket for P-3120 and P-3125	P-3135	48c	44c
Cover for P-3120, P-3125	P-3140	20c	15c

9 PIN PLUG & SOCKET ASSY.

9 PIN PLUG & SOCKET ASSY. Complete with covers	P-1910	75c	65c

OCTOPLUS

Type	Cat. No.	Price 1-9	Price 10 up
8 Pin line plug without cover	P-3010	55c	50c
8 Pin line socket without cover	P-3015	45c	40c
8 Pin chassis plug	P-3020	35c	32c
8 Pin chassis socket	P-3025	80c	75c
Cover for P-3010 plug	P-3030	30c	25c
Cover for P-3015 socket	P-3035	26c	24c

MAINS CONNECTORS

EQUIP CONNECTORS

2-pin plug Cat. P-1960 .. .. 30c
2-pin chassis switch and socket Cat. P-1965 .. .. 80c

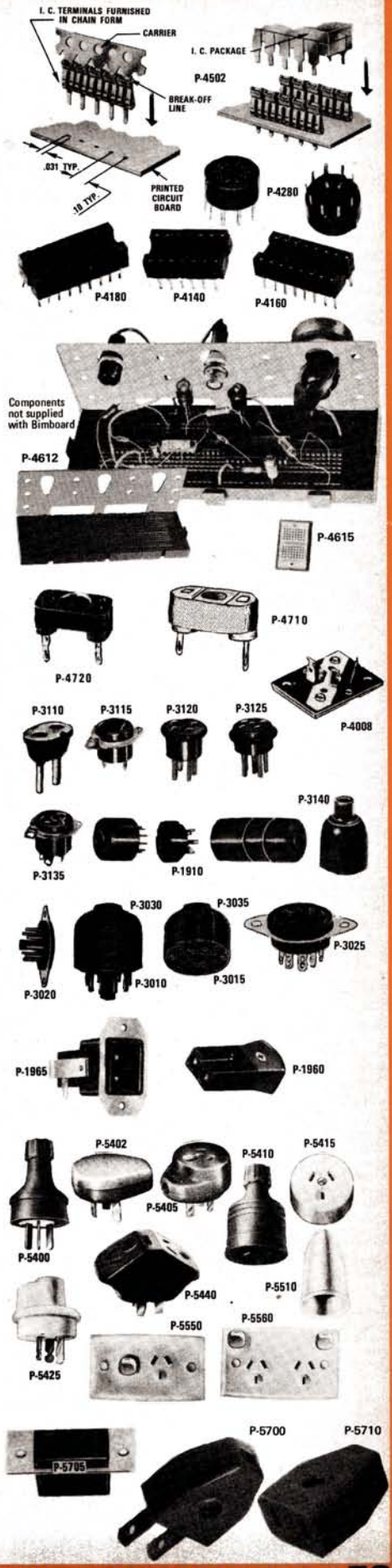
3 PIN 240V DOMESTIC FITTINGS

Very popular fully approved.

CLIPSAL Line Plug	Cat. P-5400 .. .. 62c
Side Entry Plug	Cat. P-5402 .. .. 68c
Piggy back Plug	Cat. P-5405 .. .. $1.10
Line Socket	Cat. P-5410 .. .. $1.25
Surface Socket	Cat. P-5415 .. .. 91c
Suppressor Plug	Cat. P-5425 .. .. $2.99
Double Adapter	Cat. P-5440 .. .. $1.00
Wall Power Point	Cat. P-5550 .. .. $2.20
Double Wall Outlet	Cat. P-5560 .. .. $3.50
Line Type Light Socket	Cat. P-5510 .. .. 72c

115V U.S.A. TYPE FITTINGS

2-pin line plug	Cat. P-5700 .. .. 50c	10 up	40c
2-pin line socket	Cat. P-5710 .. .. 50c	10 up	40c
2-pin chassis socket	Cat. P-5705 .. .. 45c	10 up	35c



SWITCHES

Two things to check — the number of contacts or poles ('ways' on a rotary switch) and its mode or throw, e.g. SPST stands for single pole single throw. 3PDT for triple pole double throw. Other points to remember 'NO' means normally open contact, 'NC' normally closed and relates to push-button or spring loaded switches.

TOGGLE ULTRA MINIATURE

A LITTLE BEAUTY!

Its contact rating to size ratio is very high. Ideal for models, min. portable instruments, or any use where a high quality ultraminiature switch is required

D.P.D.T. 240V AC 1.5A

CHROME TOGGLE WITH COLOUR INSERT BODY

BODY 8 mm x 9.3 mm CLEARANCE: 13.5 mm

COMPLETE WITH 2 NUTS and 2 WASHERS

GOLD PLATED CONNECTING LUGS

		10 up
Cat. S-1245	$1.00	80c

MINIATURE TYPES

MOST POPULAR RANGE — SPECIALLY IMPORTED EXCELLENT QUALITY

Being of excellent quality they can be used for most demanding applications.

All feature — 240V AC, 1.5A rating, Chrome Toggle with colour insert. Complete with 2 nuts and 2 washers. 6 mm mounting hole.

S.P.D.T.

Body 6.5 mm x 11.5 mm, Clearance 15.5 mm

		10-99
Cat. S-1173	$1.20	$1.10

D.P.D.T.

Body 12 mm x 12 mm, Clearance 20.5 mm

		10-99
Cat. S-1174	$1.45	$1.35

D.P.D.T. (CENTRE OFF)

Body 12 mm x 12 mm Clearance 20.5 mm

		10-99
Cat. S-1286	$1.75	$1.65

4 P.D.T.

Body 13 mm x 21.5 mm, Clearance 20.5 mm

		10 up
Cat. S-1175	$2.85	$2.70

MINIATURE HEAVY DUTY

AMAZING CONTACT CAPACITY!

Although this switch is still miniature in size it offers an enormous contact to size ratio. Ideal for use where high power levels are involved but where size is of prime importance.

D.P.D.T. 240V AC 5A

Chrome toggle with plastic cap. Body 12 mm x 12.5 mm Clearance 20.5 mm. 6 mm mounting hole.

		10-99
Cat. S-1168	$1.95	$1.75

ECONOMY STANDARD TOGGLE SWITCHES

S.P.S.T.

A well designed switch in bakelite case. Has chrome toggle and is complete with 2 nuts and chrome On-Off indicator plate. Ideal for electric projects and automotive use.

240V AC, 1.5A Body 14 mm x 26 mm. Clearance 20.5 mm

12 mm mounting hole

		10 up
Cat. S-1215	75c	65c

D.P.D.T.

Same features as S-1215, 240V.A.C. 1.5A

Body 18 mm x 29.5 mm, Clearance 23 mm.

12 mm mounting hole.

		10 up
Cat. S-1216	$1.20	$1.10

D.P.D.T. (CENTRE OFF)

Rugged bakelite case, chrome toggle, red and black On-Off indicator plate, heavy duty solder lug terminals. This switch features heavy duty contact rating. Makes ideal motor reversing switch, e.g. electric aerial on cars.

240V AC 3A

Body 20 mm x 35 mm, Clearance 26 mm

12 mm mounting hole.

		10 up
Cat. S-1217	$1.65	$1.45

ROCKER SWITCHES

D.P.D.T. ILLUMINATED (240V. NEON)

Positive action, handsome black body, bright red illuminating rocker switches, 15 Amps ! The terminating lugs of this switch will accept standard utilux spade clips. Mounting is push in snap lock.

250V AC 15A

Body 23mm x30.5mm, Clearence 30mm

Hole Cut out 22mm x 27mm

Cat. S-1506 .. $1.54

S.P.D.T. ILLUMINATED (240V. NEON)

Attractive oblong shape black switch with red illuminated rocker. Terminal lugs accept utilux spade quick connectors. Mounting is snap lock.

250V AC 12A

Body 19 mm x 40.4 mm, Clearance 29.5 mm

Hole cut out 12.5 mm x 37.5 mm

Cat. S-1503 .. $1.32

ROTARY SWITCHES

FULLY IMPORTED — TREMENDOUS RANGE — EXCELLENT VALUE — GREAT FOR PROJECTS

Well designed spring loaded gating gives positive action. Plated terminating lugs.

Body diameter 32 mm, Shaft 6.35 mm diam x 32 mm long.

Range all single section.

Poles	Positions			ALL VALUES
6	2	Cat. S-2302		
4	3	Cat. S-2303		
3	4	Cat. S-2304	1 - 9	10 up
2	5	Cat. S-2305	$1.65	$1.45
2	6	Cat. S-2306		
1	12	Cat. S-2312		

SPECIAL ROTARY SWITCH

FOR E.A. Dec. 73 FREQUENCY COUNTER

This is a special high quality switch using top grade insulating for R.F. work. 2 pole, 9 position, 2 section.

Cat. S-2569 .. $8.90

PUSH BUTTON SWITCHES

S.P. MINIATURE PUSHBUTTON

These mini switches are push-on momentary action. They feature a coloured plastic cap.

TERRIFIC VALUE! JUST LOOK AT THE PRICE!

240V AC 0.5A

Body 28.5 mm x 10 mm, Clearance 15 mm

Hole size 7mm.

		10 up
Cat. S-1102	35c	30c

D.P.D.T. MINIATURE ALTERNATE ACTION PUSHBUTTON

PROFESSIONAL MINIATURE

Ideal for equipment where space is very limited. It features a positive push on/push off action. The actuating black plastic button is 10 mm in diameter.

240V AC 1.5A

Body 11.5 mm x 11.5 mm, Clearance 22 m, hole size 6 mm

		10 up
Cat. S-1197	$1.75	$1.55

D.P.D.T. MOMENTARY ACTION PUSHBUTTON

This is an exceptionally high quality pushbutton switch featuring precise micro switch type action. The plastic actuator button is small to conserve space where such switches are to be stacked side by side. Ideal for computer program switch.

240V AC 2A

Body 13 mm x 13 mm, Clearance 14.5 mm, Hole size 6.5 mm.

		10 up
Cat. S-1220	$2.00	$1.80

S.P. PUSH ON, PUSH OFF PUSHBUTTON

VERY ATTRACTIVE — MANY USES

This switch features a beautiful red 11 mm square actuating button in handsome all plastic black case. Makes an excellent mains switch for projects.

250V AC 3A

Square 15 mm body front, Clearance 28 mm, Hole size 12 mm

		10 up
Cat. S-1198	$1.50	$1.30

S.P. MOMENTARY ACTION PUSHBUTTON

This is the same in looks, dimensions, and ratings as the S-1198 except it has momentary action/push on.

		10 up
Cat. S-1199	$1.45	$1.30

S.P. ILLUMINATED PUSH BUTTONS

S.P. ILLUMINATED PUSH ON MOMENTARY ACTION SWITCH

These are all plastic body with red illuminated pushbutton bezel. They are simple push snap fit mounting.

QUICK MOUNTING — EXCELLENT VALUE — ILLUMINATES RED.

240V AC, 0.5A SINGLE POLE

Body 18 mm x 18 mm, Clearance 34 mm

Hole cut out 18.5 mm x 18.5 mm, Indicator lamp 6.3V

		10 up
Cat. S-1078	$1.30	$1.20

S.P. ILLUMINATED PUSH OFF MOMENTARY ACTION SWITCH

ILLUMINATES GREEN

Push-off version of S-1078. The bezels in these two switches could be changed around if so desired.

		10 up
Cat. S-1080	$1.40	$1.30

MINIATURE SLIDE SWITCHES

D.P.D.T. SUB-MINIATURE SLIDE

COUNTLESS APPLICATIONS — AMAZING LOW COST!

Sub-miniature type suitable for countless applications. Because it is so inexpensive it is ideal for experimental projects. Actuator is black plastic.

Mounting is 19 mm centres, Clearance 12 mm, Body 8 mm x 23 mm

Cat. S-2010	40c	10up	35c

D.P.D.T. SUB-MINIATURE SLIDE WITH DECORATIVE ACTUATOR

VERY CLASSY LOOKS

Same as S-2010 but features an attractive spun aluminium actuator with red insert. Gives your equipment that posh finish.

Cat. S-2020	50c	10up	45c

D.P.D.T. MINIATURE SLIDE WITH DECORATIVE ACTUATOR

ATTRACTIVE — LOW COST

This miniature switch has a spun aluminium actuator with black insert. Larger or heavier duty than subminiature range.

Mounting centres 28 mm, clearance 14 mm, body 35 mm x 13 mm

		10 up
Cat. S-2040	60c	55c

2 POLE 3 POSITION SUB-MINIATURE SLIDE SWITCH

SPUN ALUMINIUM ACTUATOR

A versatile switch ideally suited to audio applications and instruments.

Mounting centres 19 mm, Clearance 13 mm, Body 8 mm x 24 mm

		10 up
Cat. S-2030	70c	60c

MINIATURE TOGGLE ACTION LEVER SLIDE SWITCH

This switch gives the smooth action of a slide switch but is actuated from an attractive spun aluminium toggle with coloured insert. Great for amplifier changeover switches because of its small size and attractive finish. 4.P.D.T.

Mounting centres 27 mm, Clearance 19 mm, Body 9 mm x 34 mm

Cat. S-1301 .. 95c

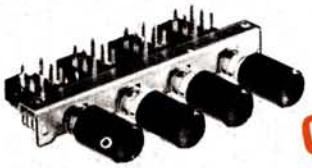
SCREWS TO SUIT SLIDE SWITCHES

Small Philips suits S-2010, S-2020, S-2030 Cat. H-1674 .. 3c

Large Philips suits S-2040, S-1301 Cat. H-1672 .. 3c

-SWITCHES-

4-WAY PUSH BUTTON SWITCH BANK



HIGH QUALITY

HIGHEST QUALITY – HUNDREDS OF USES – LOW PRICE

This switch is used in ET1 422 Amplifier but can be used for similar audio and switching applications. Each individual switch section is D.P.D.T. and is mechanically interlocked so that only the pressed button can be on at one time. It gives same switch combination as a rotary 8 Pole 4 position.
Mounting centres 75 mm, Clearance 22 m, Pushbutton size 11 mm with centres spaced at 17.5 mm.

Cat. S-1904 .. .. **$4.00**

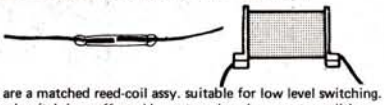
DPDT PUSH BUTTON MAINS SWITCH

MATCHES ABOVE UNIT

A quality pushbutton switch ideally suited for use as a mains On/Off control on modern amplifiers.
This is a matching unit to the above S1904 4-way bank as used in the ETI 422 amplifier. This can be used on any equipment requiring a heavy duty switch.
240V. A. C. 4A. contact rating, D.P.D.T., PC Board or soft wiring terminations, front or bottom mounting, C/W black knob.

Cat. S-1906 .. .. **$2.20**

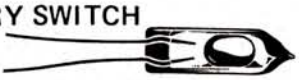
REED SWITCH AND COIL



These are a matched reed-coil assy. suitable for low level switching. The reed switch is unaffected by external environment conditions. Ideal for experimenters. 430 ohm coil operates from 6 to 15 volts DC.

Reed only	Cat. S-1946	1-9 ..	45c	10 up ..	38c
Coil only	Cat. S-1948	1-9 ..	80c	10 up	65c

MERCURY SWITCH



PERFECT FOR BIKE ALARMS – VERY RELIABLE – LOW COST

This is essentially a movement detecting switch. It is operated by changing the horizontal plane. A "ball" of mercury runs from one end of its elongated tube to the other as the position is changed. One end has a set of contacts that "make" with the mercury. It is basically a low current device but is suitable for such uses as movement detectors for car or bike burglar alarms.

Cat. S-1935 .. .. **$1.25** 10 up **$1.00**

S.P.D.T. MICRO SWITCH

$1.60

Being a micro switch action this unit is a must where a positive snap action is required. Great for burglar alarms or machinery limit switches. Complete with 16 mm actuator paddle. Requires only 350 gm to actuate.
250V AC 10A, Body 10.5 mm x 28 mm Quick connect terminals

Cat. S-1920 .. .. **$1.60**

D.P.D.T. KNIFE SWITCH

IDEAL AERIAL CHANGEOVER SWITCH

75¢

These switches are one of the earliest types used, popular in the old days for earthing "wireless aerials" or disconnecting the aerial and earth system from the "wireless set". You can still use these in such applications today or on your aerial to change from one set to another, or aerial to aerial. Many other uses where complete isolation and positive connection is needed.

Cat. S-1930 .. .. **75c** 10 up **50c**

MINIATURE ROTARY SWITCH

$4.90

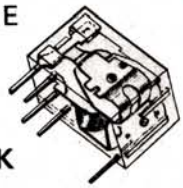
This professional quality switch is fully dust sealed and will last a lifetime. Contacts are rated at 240V. @ 1A. Contact arrangement is 2 POLE, 4 POSITION.
Requires a 6mm. mounting hole.
Supplied complete with pointer type knob.
Ideally suited to miniature equipment where space is of prime importance.

Cat. S-2380 .. .. **$4.90**

-RELAYS-

It should be noted that a D.P.D.T. relay can be used in place of a SPDT. In some cases a relay may be required to operate on a coil voltage that is not shown in our range in many cases the closest voltage stated will operate successfully, eg. S-7105 5Volt, will operate on 6V. – S-7112 on 9V. – S-7125 on 9V etc.
If D.P.D.T. relay contacts are paralleled together, the normal current capacity may be doubled when in the operating mode but the switching capability may only be as for one set of contacts.

ULTRA MINIATURE P.C. MOUNT RELAYS



HIGH RATING MINIATURE PACK

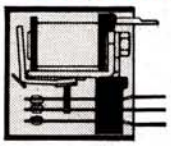
New low cost miniature lightweight relays. Ideal for any miniature equipment requiring low profile componentry, e.g. portable equipment, instrumentation, model control, compact automotive accessories, etc. Interfaces with suitable buffer to T.T.L. IC'S. Fits into any 0.1" matrix or vero board and D.I.L. Boards, etc.

Size: 15 mm L x 11 mm W x 10 mm H
Weight: 3.5 grams
S.P.D.T. Contacts raged 24V DC 1A. MAX. OR 100V AC 0.5A MAX WITH RESISTIVE LOAD.
2 Types available.

5 Volt Coil 56 OHM **Cat. S-7105** .. .. **$3.25** 10 up **$2.75**
12 Volt Coil 320 OHM **Cat. S-7112** .. .. **$3.25** 10 up **$2.75**

MINI P.C. HEAVY DUTY RELAY

VALUE



MINI P.C. BOARD MOUNT RELAYS
A miniature printed circuit board mounting relay enclosed in a plastic dustproof case.
Used in E.A. & E.T.I. PROJECTS.

	S-7125 S.P.D.T.	S-7130 D.P.D.T.
MAX. CONTACT CURRENT	5A	1A
MAX. CONTACT VOLTAGE	240V	110V
MAX. CONTACT A.C. SWITCHING POWER	1100W	110W
NOMINAL COIL VOLTAGE	12V	12V
COIL RESISTANCE	280 OHM	180 OHM

S.P.D.T. **Cat. S-7125** **$4.80**
D.P.D.T. **Cat. S-7130** **$5.80**

CRADLE RELAYS

THOUSANDS OF USES. HIGH RELIABILITY HIGH SENSITIVITY.
These are extremely small relays enclosed in transparent plastic case. There are thousands of uses for these relays where low level switching is required. Insulation effective up to 500V. 50HZ. Operate time is typically 6-10 ms and release time 3-4 ms.

STANDARD CONTACT RANGE

Gold flashed silver contacts handle 30W. (1A or 100V.)

Coil Voltage	Min.	5
6 & 12volt D.P.D.T.	Nom.	12
	Max.	17
Coil Resistance	185 ohms	
Contact Assy.	2.C.O.	
Cat. S-7012		**$3.65**
10 up		**$3.29**

Coil Voltage	Min.	8
12volt 4.P.D.T.	Nom.	12
	Max.	17
Coil Resistance	185 ohms	
Contact Assy.	4.C.O.	
Cat. S-7020		**$4.25**
10 up		**$3.71**

Coil Voltage	Min.	11
24volt D.P.D.T.	Nom.	24
	Max.	33
Coil Resistance	700 ohms	
Contact Assy.	2.C.O.	
Cat. S-7015		**$4.25**
10 up		**$3.71**

Coil Voltage	Min.	16
24volt 4.P.D.T.	Nom.	24
	Max.	33
Coil Resistance	700 ohms	
Contact Assy.	4.C.O.	
Cat. S-7025		**$4.25**
10 up		**$3.71**

HEAVY DUTY RANGE

Silver contacts handle 100W (5A. or 270V DC Max.)

Coil Voltage	Min.	8
12volt D.P.D.T.	Nom.	12
	Max.	17
Coil Resistance	185 ohms	
Contact Assy.	2.C.O.	
Cat. S-7035		**$4.25**
10 up		**$3.71**

Coil Voltage	Min.	16
24volt D.P.D.T.	Nom.	24
	Max.	33
Coil Resistance	700 ohms	
Contact Assy.	2.C.O.	
Cat. S-7040		**$4.25**
10 up		**$3.71**

CRADLE RELAYS SOCKETS FOR P.C. BOARDS

Silver plated socket to suit above relays.

2.C.O. Type
Cat. P-4732 .. .. **55c** 10 up **50c**
4.C.O. Type
Cat. P-4734 .. .. **65c** 10 up **60c**

COAX RELAY

1000 Mhz 500 Watt

$21

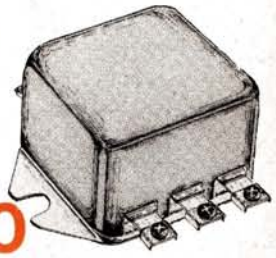
A superb relay with excellent specs. at a realistic price.
Specifications:

Max. frequency	1000 MHZ.
Max. power	500 watts.
Coil voltage	12 volts. D.C.
Coil current	85 ma.
Contacts	S.P.D.T. (change over)

Cat. S-7402 **$21.00**

DOUBLE HEADLAMP RELAY

BIG 60 amps!



$6.00

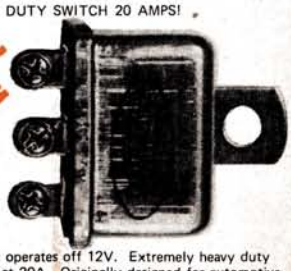
FANTASTIC! SWITCH UP TO 60 AMPS
This is a heavy duty relay in a steel case, ideal for automotive use. Each S.P. make contact is rated at 30A., wire the 2 in parallel to switch 60A. Ideal for those massive 0.1 driving lamps.

Cat. S-7304 .. .. **$6.00**

HORN RELAY

RUGGED HEAVY DUTY SWITCH 20 AMPS!

FANTASTIC VALUE



$2.20

A heavy duty relay operates off 12V. Extremely heavy duty S.P. contacts rated at 20A. Originally designed for automotive use but can be adapted to circuits requiring a rugged heavy duty relay, ideal for car burglar alarms.

Cat. S-7302 .. .. **$2.20**

CAPACITORS

ELECTROLYTIC CAPACITORS

Standard Axial Lead Type

Value in MFD	Voltage	Cat.	Price 1 - 9	Price 10-UP
.47	63	R-4010	25c	20c
1	350	R-4015	25c	20c
2.2	63	R-4020	25c	20c
3.3	25	R-4025	25c	20c
4.7	25	R-4030	25c	20c
4.7	63	R-4035	25c	20c
4.7	350	R-4040	43c	41c
4.7	500	R-4045	50c	45c
8	500	R-4050	65c	61c
10	16	R-4055	25c	20c
10	25	R-4060	25c	20c
10	63	R-4065	25c	20c
16	500	R-4070	76c	66c
24	350	R-4075	76c	66c
24	500	R-4080	$1.00	90c
25	25	R-4085	25c	20c
25	63	R-4090	30c	28c
33	350	R-4095	80c	72c
33	500	R-4100	$1.20	$1.10
47	16	R-4105	25c	20c
47	25	R-4110	29c	25c
47	63	R-4115	30c	28c
47	350	R-4120	98c	88c
100	10	R-4125	30c	25c
100	25	R-4130	30c	25c
100	63	R-4135	38c	36c
100	350	R-4140	$1.50	$1.30
220	16	R-4145	48c	38c
220	25	R-4150	76c	66c
220	63	R-4155	85c	75c
470	16	R-4160	72c	66c
470	63	R-4165	$1.20	90c
640	16	R-4170	80c	70c
1000	16	R-4175	85c	75c
1000	25	R-4180	$1.00	90c
1000	35	R-4185	$1.20	$1.10
1000	63	R-4190	$1.60	$1.40
2500	16	R-4195	$1.10	$1.00
2500	25	R-4200	$1.60	$1.40
2500	35	R-4205	$1.75	$1.60
2500	50	R-4210	$2.20	$2.10
4700	35	R-4215	$2.50	$2.30

RB SINGLE ENDED ELECTRO P.C. BOARD TYPE

Value in MFD	Voltage	Cat.	Price 1 - 9	Price 10-UP
2.2	25	R-4300	.17c	.15c
4.7	25	R-4310	.17c	.15c
25	25	R-4320	.20c	.18c
33	10	R-4330	.20c	.18c
33	35	R-4340	.25c	.23c
47	25	R-4350	.25c	.23c
100	16	R-4360	.25c	.23c
100	25	R-4370	.25c	.23c
220	16	R-4380	.55c	.50c
220	25	R-4390	.65c	.60c
330	25	R-4400	.70c	.62c
470	16	R-4410	.58c	.50c
470	25	R-4420	.70c	.60c
640	16	R-4430	.70c	.60c

TAG TANTALUM CAPACITORS

These capacitors are a resin dipped electrolytic type. The great advantage is high capacity in a very small pack, and very low leakage. Radial leads make them ideal for P.C. work. See data section for colour codes.

ALL VALUES Price 1 - 9 40c 10 up 35c

Value in MFD	Voltage	Cat.	Value in MFD	Voltage	Cat.
.1	35	R-4700	4.7	35	R-4740
.22	35	R-4705	6.8	35	R-4745
.33	35	R-4710	10	25	R-4750
.47	35	R-4715	15	16	R-4755
1	35	R-4720	22	16	R-4760
1.5	35	R-4725	33	10	R-4765
2.2	35	R-4730	47	6.3	R-4770
3.3	35	R-4735	100	3	R-4775

UPRIGHT METAL CAN ELECTRO

Value in MFD	Voltage	Cat.	Price 1 - 9	Price 10 up
100	350	R-4510	$1.90	$1.70
250	350	R-4520	$2.70	$2.50
1000	100	R-4530	$3.00	$2.80
2500	75	R-4540	$3.10	$2.90
2500	100	R-4550	$5.60	$5.00
4000	75	R-4560	$5.10	$4.50

RB-P BIPOLAR ELECTRO CAPACITORS

These special type electrolytic capacitors are non-polarised and are designed for use where the voltage across them is continuously changing in polarity and amplitude. Used in circuits requiring a high value A.C. capacitor, ideally suited to speaker crossover networks. They have a 50 volt rating.

Value in MFD	Cat.	Price 1–9	Price 10-UP
2.2	R-4600	50c.	40c.
4.7	R-4610	50c.	40c.
6.8	R-4620	50c.	40c.
10	R-4630	50c.	40c.
22	R-4640	50c.	40c.

POLYCARBONATE RADIAL LEAD CAPS

Value in MFD	400V Cat.	Price 1 - 9	Price 10-UP
.01	R-2400	25c	20c
.012	R-2405	25c	20c
.015	R-2410	25c	20c
.018	R-2415	25c	20c
.022	R-2420	25c	20c
.027	R-2425	25c	20c
.033	R-2430	25c	20c
.039	R-2435	25c	20c
.047	R-2440	25c	20c
.056	R-2445	30c	25c
.068	R-2450	30c	25c
.082	R-2455	35c	30c
.1	R-2460	35c	30c
.12	R-2465	40c	35c
.15	R-2470	40c	35c
.18	R-2475	40c	35c
.22	R-2480	45c	40c
.27	R-2485	50c	45c
.33	R-2490	50c	45c
.39	R-2495	70c	65c
.47	R-2500	80c	70c
.56	R-2505	80c	70c
.68	R-2510	80c	70c
.82	R-2515	90c	80c
1	R-2520	$1.10	90c

Value in MFD	600V Cat.	Price 1 - 9	Price 10-UP
.01	R-2600	25c	20c
.012	R-2605	25c	20c
.015	R-2610	25c	20c
.018	R-2615	25c	20c
.022	R-2620	25c	20c
.027	R-2625	30c	25c
.033	R-2630	30c	25c
.039	R-2635	30c	25c
.047	R-2640	30c	25c
.056	R-2645	35c	30c
.068	R-2650	35c	30c
.082	R-2655	35c	30c
.1	R-2660	40c	35c
.12	R-2665	45c	40c
.15	R-2670	45c	40c
.18	R-2675	55c	50c
.22	R-2680	60c	55c
.27	R-2685	80c	70c
.33	R-2690	$1.20	$1.00
.39	R-2695	$1.40	$1.30
.47	R-2700	$1.80	$1.70

GREENCAP PLASTIC FILM CAPACITORS

Quality economical types, radial leads for P.C. board mounting. All 100 volt working.

Values in MFD	Cat.	Price 1 - 9	Price 10-UP
.001	R-2010	18c	16c
.0015	R-2015	18c	16c
.0022	R-2020	18c	16c
.0033	R-2025	18c	16c
.0039	R-2030	18c	16c
.0047	R-2035	18c	16c
.0056	R-2040	18c	16c
.0068	R-2045	18c	16c
.0082	R-2050	18c	16c
.01	R-2055	18c	16c
.015	R-2060	18c	16c
.022	R-2065	18c	16c
.033	R-2070	19c	17c
.039	R-2075	19c	17c
.047	R-2080	19c	17c
.056	R-2085	19c	17c
.068	R-2090	25c	20c
.082	R-2095	25c	20c
.1	R-2100	25c	20c
.15	R-2105	25c	20c
.22	R-2110	25c	20c
.27	R-2115	30c	25c
.33	R-2120	30c	25c
.39	R-2125	35c	30c
.47	R-2130	40c	35c
1.0	R-2135	$1.20	$1.10
2.00	R-2140	$2.29	$2.00
3.3	R-2145	$2.29	$2.00

CERAMICS

T.H. Type 50 volt miniature plate.

Values:
1pF, 1.5pF, 2.2pF, 2.7pF, 3.3pF, 3.9pF, 4.7pF, 5.6pF, 6.8pF, 8.2pF, 10pF, 12pF, 18pF, 22pF, 27pF, 33pF, 39pF, 47pF, 56pF, 68pF, 82pF. (State value required).

		Price 1–9	Price 10-UP
Cat.	R-2210	11c.	9c.

T.L. Type 50 volt miniature plate.

Values:
100pF, 120pF, 150pF, 180pF, 220pF, 270pF, 330pF, 390pF, 470pF, 560pF, 680pF, 820pF, .001MFD, .0022MFD, .0033MFD, .0047MFD, .0056MFD, .0068MFD, .0082MFD, .01MFD, .022MFD, .033MFD, .047MFD. Cat. R-2280 (State value required).

			Price 1–9	Price 10-UP
Cat.	R-2280		11c	9c
Cat.	R-2360	.1MFD	16c	14c
Cat.	R-2370	.22MFD	20c	18c
Cat.	R-2380	.47MFD	34c	30c

POLYSTYRENE CAPACITORS

These types have a low temperature coefficient and are suitable for applications where high temperature stability is required, e.g., oscillator circuits, L.C. circuits in lower R.F. frequency work. ALL ARE 630V. RATING.

Values:
33pF, 39pF, 47pF, 56pF, 68pF, 82pF, 100pF, 120pF, 150pF, 180pF, 220pF, 270pF, 330pF, 390pF, 470pF, 560pF, 820pF, 1000pF (.001MFD). (State value required).

ALL VALUES

		Price 1–9	Price 10 up
Cat.	R-2800	25c.	20c.

SILVER MICA CAPACITORS

These capacitors are of the highest temperature stability types. They are also high stability 5% tolerance, suitable for circuits requiring close tolerance and high stability e.g., generator circuits both RF and audio, xtal oscillator circuits. RF LC circuits. They all are 100V. working.

(State value required) LCQ RANGE in pF	Cat.	Price 1–9	Price 10-UP
4.7, 5.6, 6.8, 10, 15, 22,	R-3030	25c.	20c.
27, 33, 47, 56, 68, 82, 100	R-3050	30c.	25c.
120, 150, 180, 220, 270, 330, 390, 470.	R-3060	35c.	30c.
560, 680, 820, 1000.	R-3070	35c.	32c.

PHILIPS POLYCARBONATE HIGH VOLTAGE AXIAL LEAD

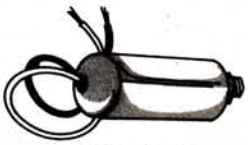
Suitable for such uses as T.V. sets and mains suppression.

Value	Voltage	Cat.	Price 1–9	Price 10-UP
.001 MFD	1600V.	R-2740	35c.	30c.
.01 MFD	1000V.	R-2730	50c	35c.
.1 MFD	1000V.	R-2720	70c.	65c.

SPECIAL HIGH VOLTAGE STROBE CAPACITOR

Used for special purposes where low leakage, and high voltages are required.

6.5 MFD 250V. A.C. Cat. R-2855 $3.75



CERAMIC FEEDTHRU CAPACITOR

Ideal for feedthru bypass on DC supply lines, bypass in RF amplifiers, noise suppression on small AC/DC motors.

.0012uf 350V.

Cat. R-2850 30c

VARIABLE TUNING GANGS

Type	Cat.	Price 1–9	Price 10 up
2 Gang 415pF Roblan	R-2950	$8.25	
1 Gang 415pF Roblan	R-2955	$4.50	

60 pF to 160 pF Miniature Solid Dielectric Transistor Radio Gang – suitable for standard replacement type, good for Radio projects.

R-2970 $1.50 $1.00

TRIMMERS ELMENCO MICA

These compression type trimmers are ideally suited for H.F. & V.H.F., R.F. circuits. The working voltage is 250V. D.C. and they are suitable for transmitter work where high R.F. current is involved. These trimmers are quality products using only the finest materials.

Value	Cat.	Price 1–9	Price 10 up
1.5 to 20pF	R-2900	70c.	60c.
7 to 60pF	R-2905	$1.00	80c.
15 to 115pF	R-2910	$1.25	$1.20

STETTNER CERAMIC

Quality components at low cost. These are miniature in size and are suited to areas requiring mini componentry.

Type	Value	Cat.	Price 1–9	Price 10 up
N075 SUB.MIN.	3 to 9pF	R-2920	45c.	40c.
N470 SUB.MIN.	3.5 to 13pF	R-2925	45c.	40c.
N750 MIN.	6 to 25pF	R-2930	45c.	40c.
N750 MIN.	10 to 40 pF	R-2935	45c.	40c.

RESISTOR AND CAPACITOR DATA

All resistors have three important specifications:

Value: Given in ohms, kilohms (abbreviated k; thousands of ohms) and megohms (abbreviated M; millions of ohms). Values are usually shown by a color banding system — see code inside rear cover.

Wattage: The amount of power the resistor can safely dissipate as heat. A higher wattage resistor may be used if it will fit. Never use a lower wattage resistor than specified.

Tolerance: The possible variation (in %) in a resistor's actual value from its nominal marked value. Represented by a color band: gold 5%; silver 10%; no band 20%.

USING RESISTORS

Series connection: Simply add the values together: e.g. a 10 ohm and a 47 ohm in series = 57 ohms.

i.e. $R_T = R_1 + R_2 + R_3$ .....

Parallel connection: The value is

$$\frac{1}{R_T} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} \ldots\ldots\ldots$$

e.g: 100 ohms, 500 ohms & 1k in parallel would be

$$\frac{1}{100} + \frac{1}{500} + \frac{1}{1000} = \frac{1}{R_T}$$

$$\frac{13}{1000} = \frac{1}{R_T} \quad \therefore \quad R_T = 77 \text{ ohms}$$

Note that R_T is less than

Note that R_T is always less than the lowest resistance in the parallel network.

Types of resistors. The main types are: cracked carbon, deposited carbon, carbon film, metal film & wire wound. Carbon & metal film are now the most common, but other types (for example, wire wound in high dissipation ccts) may be specified in special circumstances

When selecting capacitors, consideration should be given to type, value and ratings.

Value: Given in picofarads (pF); nanofarads (nF) 1nF = 1000pF; & microfarads (uF or mfd). 1uF = 1000nF or 1,000,000pF

Voltage rating: The maximum voltage at which the capacitor can be used. Expressed as "VW" (volts working). Capacitors with a higher rating than the one called for may be used in a circuit, but not vice-versa.

Types: In some cases it may be necessary to use a certain type of capacitor (eg, an oscillator circuit would need a polyester or ceramic, but would not work with an electrolytic). In many cases, the type is not so critical. Electrolytic types are used in filtering, smoothing or reservoir, and are not generally critical of value.

Types: Main types are ceramic, polyester, polycarbonate, paper (now superseded) electrolytic and tantalum electrolytic. Some circuits will work with one type and not another (eg, an oscillator will work with a poly or ceramic, but not an electro). Electros are usually used in smoothing and filtering applications where value is not very critical. (e.g. a 2200uF may actually be a 2000uF or a 2500uF).

Polarity: Electrolytic capacitors (inc. tantalum) are polarity conscious, except for a few special non-polarised types. Their + & – connections have to be observed.

Parallel connection: Same as SERIES resistors — simply add the values together: $C_T = C_1 + C_2 + C_3$ .....

e.g. 100uF + 47uF + 220uF = 367uF

Series connection: Same as PARALLEL resistors —

$$\frac{1}{C_T} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3} \ldots\ldots$$

e.g. 100uF + 47uF + 220uF = 28uF

HIGH QUALITY CARBON FILM

NEW LOWER QUANTITY PRICES

All values in the E12 range up to 10 MEG are 5%, above that, 10%. The E12 range consists of the following values in each decade.

1.0, 1.2, 1.5, 1.8, 2.2, 2.7, 3.3, 3.9, 4.7, 5.6, 6.8, 8.2.

¼ W, 1 OHM to 10 MEGOHM.
1- 99 .. .. 5c
Cat. R-1110 .. .. 100-999 .. .. 3.5c

½ W, 1 OHM to 10 MEGOHM.
1- 99 .. .. 5c
Cat. R-1220 .. .. 100-999 .. .. 3.5c

1 W, 1 OHM to 1 MEGOHM.
1- 99 .. .. 8c
Cat. R-1440 .. .. 100-999 .. .. 6c

1W, 1.2MEGOHM TO 10 MEGOHM
Cat. R-1470 .. .. 12c 100 up 11c

Special miniature wire wound types below 1 OHM. These are 1 watt rating but are so small they can be used in place of ½ watt.

Values — .47 (.51), .82 OHM.
Cat. R-1565 .. .. 25c 100 up 20c

Quantity Buying Note:

For 100 up price resistors may be assorted values and quantities

POWER RESISTORS WIRE WOUND

Rugged for high power dissipation, square in section for ease of stacking.

Values in OHMS. NEW LOWER PRICES

5 WATT

.47(.51), 1, 1.5, 2.2, 3.3, 4.7, 5.6, 6.2, 6.8, 8.2.
Cat. R-1605 .. .. 55c 100 up 45c

10, 12, 15, 18, 22, 27, 33, 39, 47, 56, 68, 82, 100, 120, 150, 180, 220, 270, 330, 390, 470, 560, 680, 820, 1K, 1.2K, 1.5K, 1.8K, 2.2K, 2.7K, 3.3K.
Cat. R-1660 .. .. 40c 100 up 25c

3.9K, 4.7K.
Cat. R-1690 .. .. 60c 100 up 45c

10 WATT

1, 1.5, 2.2, 2.7.
Cat. R-1710 .. .. 60c 100 up 50c

3.3, 4.7, 5.6, 6.8, 8.2.
Cat. R-1715 .. .. 60c 100 up 50c

10, 12, 15, 18, 22, 27, 33, 39, 47, 56, 68, 82, 100, 120, 150, 180, 220, 270, 330, 390, 470, 560, 680, 820, 1K, 1.2K, 1.5K, 1.8K, 2.2K, 2.7K, 3.3K.
Cat. R-1725 .. .. 60c 100 up 40c

3.9K, 4.7K, 5.6K, 6.8K.
Cat. R-1755 .. .. 65c 100 up 60c

8.2K, 10K, 12K.
Cat. R-1765 .. .. 85c 100 up 80c

15K, 18K, 20K.
Cat. R-1775 .. .. 95c 100 up 85c

THERMISTORS

These are thermally sensitive resistors suitable for many applications where temperature sensing is necessary. Such as temperature measurement, control and compensation, amplitude control, trigger circuits, measurement of velocity of liquids and gases etc.

Type R53 3mW Dissip. 5K @ 25°C.
Cat. R-1790 .. .. $4.20

COMPUTER RESISTOR PACK

This is a pack of 300 resistors compiled from a computer user listing. All values are included from 10 OHM to 1 MEG. There are at least 2 of every value. However, resistors that are used more commonly are in higher quantities.

For example: 2 x 560K & 20 x 1K. This makes the total pack great value because you are not stuck with a heap of useless sizes you will never use.

Ideal for the hobbyist and professional man, a good starter to any resistor stock. Check out these details.

300 Resistors, 60 Values, ¼ Watt, Quality Carbon Film, 5% Tolerance, packaged for easy storage. Huge savings, Less than 2 cents each.
Cat. R-7010 .. .. $5.90

GREENCAP CAPACITOR PACK

This is another value-packed assortment. Check out the values, you will see you get values you really use and not a lot of weird rubbish. These are all brand new, top quality greencaps. 125V., 10%.

Included are:
5x .001, 3x .0015, 3x .0033, 2x .0047, 1x .0056, 3x .0068, 1x .0082, 7x .01, 3x .022, 3x .033, 6x .047, 1x .056, 15x .1, 5x .15, 2x .22 .. .. 60 in total
Cat. R-7040 .. .. $6.50

CERAMIC CAPACITOR PACK

Over 60 quality ceramic disc capacitors in this useful pack. Working voltages no less than 50V; many 630 volt working but miniature size. Only common values included: here is the complement of a typical pack (all brand new components) — 2 x 10pF, 2 x 22pF, 2 x 33pF, 2 x 47pF, 6 x 100pF, 4 x 150pF, 4 x 220pF, 3 x 330pF, 3 x 470pF, 6 x .001uF, 5 x .0047uF; 8 x .01uF, 8 x .047uF, 6 x 0.1uF. Save over $2.00! Cat R-7050 .. .. $4.50

ELECTROLYTIC CAPACITOR PACK

50 Top Quality capacitors, values based on computer user listing, no useless values. This pack represents a saving of 70% over normal one-off purchasing.

Look at these values .... **All single ended types**

10 volt 2x22, 1x47, 8x100, 15x220, 1x470.
16 volt 2x100, 2x220.
25 volt 1x10, 2x22, 1x47, 3x100, 2x220.
50 volt 1x1, 1-2.2, 2x4.7, 2x10, 1x22, 1x47, 1x10, 1x220.

SAVE

Cat. R-7030 .. .. Priced at only $6.00

POTENTIOMETERS

The most common potentiometers (commonly known as pots.) are the rotary carbon types. These are used in just about all electronic equipment requiring variable resistance control. The two most common types are linear and log which refers to the change of resistance with respect to rotation of the shaft. Linear, as the name suggests, gives linear resistance change with rotation of the shaft. Log types are used in such application as volume controls on audio equipment to account for non-linearity of the human ear. Where high power levels are concerned, it may be necessary to use wire wound types capable of dissipating higher power. These are normally only linear.

NOTE ON VALUES

Depending on manufacturer, the actual value of the pot. may vary from the listed type. e.g. 4.7K = 5K or vice versa
20K = 22K or vice versa

In almost all cases it is perfectly OK to use this nearest size.

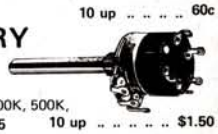
SINGLE ROTARY POTS NEW LOWER PRICES

Values in OHMS.

Linear — 500, 1K, 5K, 10K, 20K, 50K, 100K, 500K, 1M, 2M
Cat. R-1800 .. .. 70c 10 up 60c

Log 1K, 5K, 10K, 20K, 50K, 100K, 500K, 1M, 2M
Cat. R-1815 .. .. 70c 10 up 60c

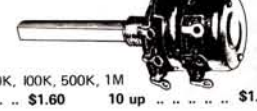
SINGLE ROTARY SWITCH POTS



Linear 5K, 10K, 20K, 50K, 100K, 500K,
Cat. R-1860 .. .. $1.75 10 up $1.50

Log 5K, 10K, 20K, 50K, 100K, 500K, 1M, 2M
Cat. R-1875 .. .. $1.50 10 up $1.25

DUAL ROTARY POTS

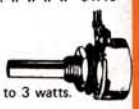


Values in OHMS

Linear 10K, 20K, 50K, 100K, 500K, 1M
Cat. R-1830 .. .. $1.60 10 up $1.40

Log 10K, 20K, 50K, 100K, 500K, 1M, 2M
Cat. R-1845 .. .. $1.60 10 up $1.40

WIRE WOUND POTS



These are quality small form types now uprated to 3 watts.

Values in OHMS

5, 10, 25, 50, 100, 200, 500, 1K, 2K, 3K, 5K, 7.5K, 10K.
Cat. R-1970 .. .. $2.50 10 up $2.10

SPECIAL WIRE WOUND POT

Economical wire wound pot. 20 OHM, 4.5W audio, 1.5 W DC
Ideal for speaker fader control on car radio rear speakers (suits 4-15 ohm systems)
Diam. 28 mm, 6 mm shaft, complete with knob.

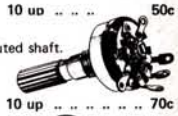
1-9 10 up
Cat. R-1990 .. .. 85c 75c

JAP REPLACEMENT POTS

Ideal transistor radio replacement

Miniature screw mounted, thumbwheel adjusted type.

5K with switch
Cat. R-1971 .. .. 60c 10 up 50c



Miniature Rotary Type with 25 mm fluted shaft.

5K with switch.
Cat. R-1974 .. .. 80c 10 up 70c

TRIM POTS

Vertical mounting types stocked but can be adapted to mount flat in the horizontal position. 2 sizes are available.
100, 220, 470, 1K, 2.2K, 4.7K, 10K, 22K, 47K, 100K, 220K, 470K, 1M.

LARGE 20 mm H x 18 mm W
4.5 mm thru. 5.08 mm Pin spacing.
Cat. R-1955 .. .. 30c 10 up 25c

MINI 10 mm H x 10 mm W
3.8 mm thru. Pin fit standard 0.1"(2.54 mm) matrix
Cat. R-1940 .. .. 25c 10 up 22c

JOYSTICK POT.

This assy. is complete with 2 x 100K linear pots. and chrome joystick knob. Ideal for video game bat controls, music synthesisers radio control gear, X - Y analog displays etc.
Cat. R-1976 .. .. $4.75

SEMICONDUCTORS

TTL DIGITAL IC'S

I.C. No.	Description (All Dual in-line packs)	Cat.	Price 1-9	Price 10-99	Price 100 mix
7400	Quad 2 input nand gate	Z-5010	.45c	.40c	.35c
7401	Quad 2 input nand gate open/collector	Z-5011	.45c	.40c	.35c
7402	Quad 2 input not gate	Z-5012	.45c	.40c	.35c
7403	Quad 2 input nand gate open/collector	Z-5013	.45c	.40c	.35c
7404	Hex. Inverter	Z-5014	.45c	.40c	.35c
7405	Hex. Inverter open/collector	Z-5015	.45c	.40c	.35c
7408	Quad 2 input and gate	Z-5018	.45c	.40c	.35c
7409	Quad 2 input and gate open/collector	Z-5019	.45c	.40c	.35c
7410	Triple 4 input nand schmitt trigger	Z-5020	.45c	.40c	.35c
7413	Dual 4 input nand schmitt trigger	Z-5023	.45c	.40c	.35c
7414	Hex. Schmitt trigger	Z-5024	$2.20	$2.00	
7420	Dual 4 input nand gate	Z-5030	.45c	.40c	.35c
7430	Single 8 input nand gate	Z-5035	.45c	.40c	.35c
7437	Quad 2 input nand gate/buffer	Z-5040	.88c	.77c	.65c
7440	Qual 4 input buffer	Z-5042	.49c	.44c	.39c
7441	1 of 10 decoder/driver	Z-5043	$1.65	$1.43	$1.20
7442	B.C.D. to Decimal Decoder/driver	Z-5044	$1.32	$1.21	$1.00
7447	B.C.D. to 7 segment decoder/driver	Z-5047	$1.80	$1.70	$1.50
7450	Dual and/or gate inverter/expander	Z-5050	.49c	.44c	.40c
7451	Dual 2 input and/or invert gate	Z-5051	.49c	.44c	.40c
7453	Expandable 4 wide 2 input and/or invert gate	Z-5053	.49c	.44c	.40c
7454	4 wide 2 input and/or invert gate	Z-5054	.45c	.40c	.35c
7460	Dual 4 input expander	Z-5060	.45c	.40c	.35c
7470	J.K. edge triggered flip flop	Z-5070	.70c	.60c	.50c
7472	J.K. M/S flip flop	Z-5072	.88c	.77c	.65c
7473	Dual J.K. M/S flip flop	Z-5073	$1.10	$1.04	.99c
7474	Dual D. flip flop	Z-5074	$1.10	$1.04	.99c
7475	4 Bit Latch	Z-5075	$1.32	$1.21	$1.11
7476	Dual J.K. M/S flip flop	Z-5076	$1.10	.99c	.90c
7480	Full Adder	Z-5080	$1.98	$1.92	$1.75
7482	2 Bit full adder	Z-5082	$2.09	$2.03	$1.90
7483	4 Bit full adder	Z-5083	$1.76	$1.65	$1.50
7486	Quad exclusive or gate	Z-5086	.88c	.77c	.65c
7490	Decade counter	Z-5090	$1.00	.90c	.80c
7490A	High speed decade counter	Z-5089	$1.20	$1.00	
7491	8 Bit shift register	Z-5091	$1.54	$1.43	$1.30
7492	Divide by 12 counter	Z-5092	$1.10	.99c	.90c
7493	Binary counter	Z-5093	$1.00	.90c	.80c
7495	4 Bit right/left shift register	Z-5095	$2.42	$2.31	$2.10
7496	5 Bit shift register	Z-5096	$2.00	$1.90	$1.80
74107	Dual J.K. M/S flip flop	Z-5250	$1.10	.99c	.90c
74121	One-shot Multivibrator	Z-5260	.80c	.70c	.60c
74141	B.C.D. to decimal decoder/driver	Z-5265	$3.20	$3.10	$3.00
74192	Up/down decade counter	Z-5270	$2.50	$2.45	$2.30
74193	Up/down binary counter	Z-5280	$2.50	$2.45	$2.30
9001	J.K. M/S flip flip (74105)	Z-5350	$2.20	$1.50	
9368	5 Bit latch BCD to 7 seg. decoder	Z-5354	$3.52	$3.41	

ECL DIGITAL IC'S

11C90	600mHz decade counter	Z-5364	$23.99		
95H90	300mHz decade counter	Z-5360	$16.50	$13.20	

CMOS DIGITAL IC'S

TYPE	DESCRIPTION	Cat.	Price 1-9	Price 10-99	Price 100 mix
4000AE	Dual 3 Input NOR Gate Plus Inverter	Z-5600	.46c	.41c	.35c
4001AE	Quad 2 input NOR Gate	Z-5601	.46c	.41c	.35c
4002AE	Dual 4 Input NOR Gate	Z-5602	.46c	.41c	.35c
4006AE	18 Stage Shift Register Static	Z-5606	$3.02	$2.91	$2.70
4007AE	Dual Complementary Pair plus Inverter	Z-5607	.46c	.41c	.35c
4009AE	Hex Buffer/Converter, Inverting	Z-5609	$1.30	$1.20	$1.17
4011AE	Quad 2 Input Nand Gate	Z-5611	.46c	.41c	.35c
4012AE	Dual 4 Input Nand Gate	Z-5612	.46c	.41c	.35c
4013AE	Dual D. Type Flip Flop with Reset	Z-5613	$1.37	$1.26	$1.15
4014AE	8 Stage Static Shift Register	Z-5614	$3.02	$2.91	$2.70
4016AE	Quad Bi-Lateral Switch	Z-5616	$1.05	$1.00	.95c
4017AE	Decade Counter/Divider	Z-5617	$2.92	$2.70	$2.60
4018AE	Presettable Divide by "N" Counter	Z-5618	$3.08	$2.97	$2.80
4021AE	8 Stage Static Shift Register	Z-5621	$2.86	$2.80	$2.70
4022AE	Divide by 8 counter with 8 Decoder Outputs	Z-5622	$2.47	$2.42	$2.30
4023AE	Triple 3 Input Nand Gate	Z-5623	.46c	.41c	.35c
4024AE	7 Stage Ripple Counter	Z-5624	$1.35	$1.30	$1.20
4025AE	Triple 3 Input Nor Gate	Z-5625	.46c	.41c	.35c
4027AE	Dual JK Type Flip Flop with Reset	Z-5627	$1.28	$1.22	$1.15
4028AE	BCD to Decimal Decoder	Z-5628	$2.31	$2.20	$2.10
4029AE	Presettable Up/Down 4 Stage Counter	Z-5629	$3.10	$3.02	$2.80
4030AE	Quad Exclusive or Gate	Z-5630	$1.00	.95c	.90c
4049AE	Hex Buffer/Converter, inverting	Z-5649	$1.10	$1.04	.95c
4050AE	Hex Buffer/Converter, non inverting	Z-5650	$1.10	$1.04	.95c
4071AE	Quad 2 Input or Gate	Z-5671	.46c	.41c	.35c
4081AE	Quad 2 Input and Gate	Z-5681	.46c	.41c	.35c
4416AE	Double Pole Double Throw Switch	Z-5710	$1.10	$1.04	.95c
4426AE	Decade Counter/7 Segment Decoder/Driver	Z-5715	$3.75	$3.63	$3.40
4449AE	Economy Hex Inverter	Z-5720	.55c	.50c	.40c
4511AE	BCD To 7 Segment Latch/Decoder/Driver	Z-5730	$2.90	$2.60	$2.50
4518AE	Dual BCD Up Counter	Z-5740	$2.90	$2.60	$2.50
4520AE	Dual 4 Stage Binary Up Counter	Z-5742	$3.10	$2.97	$2.80
4528AE	Dual Retriggerable Monostable Multivibrator	Z-5748	$1.92	$1.87	$1.70
MC14553	Latch BCD to 7 Segment Decoder & Driver	Z-5782	$11.55	$11.33	$11.00
MM5369	Oscillator Divider	Z-5781	$3.50	$3.00	
74C00	Quad 2 input nand gate	Z-5410	.50c	.45c	.40c
74C02	Quad 2 input nor gate	Z-5412	.50c	.45c	.40c
74C926	2 Decade Counter	Z-5414	$12.00	$11.50	

SPECIAL FUNCTION LSI IC'S

TYPE	DESCRIPTION	Cat.	Price 1-9	Price 10 up
MM5314	6 Digit Clock Chip	Z-6814	$5.90	$4.87
CT7001	Clock Chip with sec., date, alarm, snooze	Z-6821	$8.90	
TMS3834	4 Digit clock chip with alarm, snooze	Z-6830	$8.90	
S50242	2 Octave Divider for Electronic Organ	Z-5784	$14.00	$13.20
AY-3-8550	T.V. Game Chip C/W Score. & Bat Control AY-3-8550 is pin for pin equivalent to AY-3-8500	Z-6850	$19.75	
HD0165	Keyboard Decoder	Z-9301	$10.12	$ 9.20
MM5740AAF	Keyboard Prom.	Z-9302	$19.75	
S8890	Rhythm Generator	Z-5790	$17.70	$16.61
74C926	4 Decade Counter	Z-5414	$12.00	$11.50
MM5369	Oscillator Divider	Z-5781	$ 3.50	$ 3.00

LINEAR IC'S

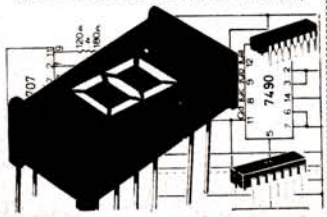
I.C. No.	Case	Description	Cat.	Price 1 - 9	Price 10 - 99	Price 100 up
CA3028A	T05	Differential/cascode amplifier	Z-6020	$3.75	$3.00	$2.50
CA3130T	T05	F.E.T. operational amplifier	Z-6025	$2.00	$1.90	$1.75
LM301 (UA301)	8DIL	General Purpose Op. Amp.	Z-6040	$1.05	.92c	.62c
LM308	14DIL	Super Beta Op. Amp.	Z-6045	$2.75	$2.53	$2.25
LM317K	T03	2-30V, Voltage Regulator	Z-6542	$3.99	$3.60	
LM339	14DIL	Quad Comparator	Z-6055	$3.57	$3.52	
LM380	14DIL	5W Power Audio Amplifier	Z-6080	$2.00	$1.80	$1.70
LM381	14DIL	Dual Low Noise Pre-amplifier	Z-6081	$3.52	$3.30	$2.80
LM709 (UA709)	14DIL or T05	High Performance Op. Amp.				
LM741 (UA741)	8DIL or TO-5	Frequency Compensated Op. Amp.				
LM3900	8DIL	Quad Op. Amp.	Z-6100	$1.75	$1.60	$1.20
LM3909	8DIL	L.E.D. Oscilator	Z-6109	$1.50	$1.40	
NE555	8DIL	Timer	Z-6145	$1.00	.85c	.75c
NE556	14DIL	Dual Timer	Z-6146	$2.75	$2.50	$2.00
OM321	(OM190)	Hybrid V.H.F. Amplifier	Z-6180	$13.50	$13.00	
LM382	14DIL	Stereo Pre-amplifier	Z-6082	$2.80	$2.30	$2.15
OM802	T018	Timer	Z-6190	$2.50	$2.30	
SAK140	16DIL	Auto. Tachometer	Z-6230	$3.10	$2.80	
SL440	14DIL	Zero Crossing A.C. Switch	Z-6250	$9.84	$9.02	
TAA300	T05	1Watt Audio. Amplifier	Z-6260	$3.19	$2.70	
TCA220	14DIL	Op. Amp.	Z-6270	$2.90	$2.65	
UAA170	16DIL	16 LED Display Line Driver	Z-6290	$3.80	$3.60	
UAA180	18DIL	12 LED Display Line Driver	Z-6292	$3.80	$3.60	
UA709C (LM709)	14DIL or T05	High Performance Op. Amp.	Z-6352	$1.00	.95c	.80c
UA723 (LM723)	T05	Voltage Regulator	Z-6360	$1.20	$1.10	.90c
UA739	14DIL	Dual Low Noise Op. Amp.	Z-6370	$2.75	$2.47	$2.25
UA741	8DIL	Frequency Compensated	Z-6382	60c	50c	45c
14DIL	or T05	Op. Amp.	Z-6380	60c	50c	45c
ZN414	T018	Complete Radio Chip	Z-6520	$3.95	$3.25	
7805	TO-220	Three Terminal Pos. 5V Regulator	Z-6545	$2.50	$2.10	
7812	TO-220	Three Terminal Pos. 12V Regulator	Z-6552	$2.50	$2.10	
8038	14DIL	Function Generator	Z-6560	$8.52	$8.25	

IC COUNTER PACKS

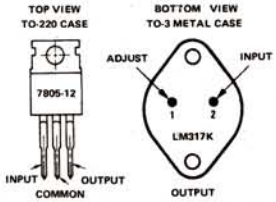
These packs have been produced for the experimenter. When used with suitable circuitr they form the basis of the decade counting system for such uses as batch counters, frequency counters, timers, stopwatches, period counters, clocks, etc.
The packs come complete with instruction sheet giving circuit descriptions, connections, wiring det•ils suitable for interface circuitry and use suggestions.

T.T.L. A Pack Cat. Z-9006 $5.00
Consists of DL707, 7 seg. Display, 7447 Decoder driver, 7490 decade counter.

T.T.L. B Pack Cat. Z-9008 $6.20
Consists of A Pack plus a 7475 latch circuit to store information between counter and display.



VOLTAGE REGULATORS



THREE TERMINAL VOLTAGE REGULATOR IC's

These voltage regulators almost make power supply building unnecessary. Requires only a filtered DC voltage input. They are essentially indestructible (if used within manufacturer's specs) because of internal current limiting and thermal shut-down should a short occur. They are ideally suited to local, on board regulation simplifying power supply distribution systems. Excellent for TTL & project supplies
See data section for more details.

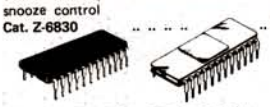
Type No.	Description	Cat.	Price
7805	5V @ 1A	Z-6545	$2.50
7812	12V @ 1A	Z-6552	$2.50
LM317k	2–30V adj @ 1.5A	Z-6542	$3.99

SPECIAL CLOCK CHIPS

MM5314 CLOCK CHIP $5.90
6 digit, 12 or 24 hr. format, 50 or 60hz. input
Cat. Z-6814 .. .. $5.90

CT7001 CLOCK AND CALENDAR CHIP
4 digit with seconds display ability, 12 or 24 hr. 50 or 60 Hz. input, alarm facility with snooze, date, timer for clock radio control.
Cat. Z-6821 .. .. $8.90

TMS3834 CLOCK CHIP WITH ALARM
4 digit with seconds display ability, 12 or 24 hr. 50 or 60 Hz. input, alarm facility with repeatable snooze control
Cat. Z-6830 .. .. $8.90



IC AUDIO OUTPUT

SPECIAL LOW COST LM 380 (SL60745)
New updated version gives up to 6W. from 22V. supply. The chip has a gain of 34 dB., it also features short circuit proof output stage, low distortion and high input impedance. Ideal for phono amps, TV and radio output stages, intercoms, etc.

	1-9	10 up
Cat. Z-6080	$2.00	$1.80

DIL IC SOCKETS

QUALITY LOW COST D.I.L. I.C. SOCKETS
Brand new from top manufacturer at low prices. Ideal for experimenters and all I.C. projects.

	1–9	10 up
8 PIN D.I.L. Cat. P-4080	40c.	35c.
14 PIN D.I.L. Cat. P-4140	50c	45c
16 PIN D.I.L. Cat. P-4160	60c	55c

ONE IC RADIO

ZN414
A.M. RADIO RECEIVER IC.
With only 7 external components including battery, this IC. gives you a complete little radio. It features low power requirements 1.5V. @.3mA., stable, small TO–18 pack suitable for miniaturization and low cost. Ideal for beginners radio project, can be used as A.M. Radio for HI-FI tuner. See data section for more details.

	1–9	10 up
Cat. Z-6520	$3.95	$3.25

TRANSISTORS

	Cat.	Price 1-9	Price 10-99	Price 100 up
AC107 (Use OC75)				
AC125 (Use AC126)				
AC126	Z-1054	55c	50c	35c
AC127	Z-1062	80c	70c	60c
AC128	Z-1064	80c	70c	60c
AC132	Z-1060	70c	65c	50c
AC187	Z-1080	80c	70c	60c
AC188	Z-1082	95c	85c	70c
AD149 (Use OC26)				
AD161	Z-1110	$1.75	$1.65	$1.35
AD162	Z-1112	$1.75	$1.65	$1.35
AF144 (Use AF116)				
AF115 (Use AF116)				
AF116	Z-1134	$1.20	$1.10	$1.00
AF117 (Use AF116)				
AF118	Z-1138	$1.50	$1.40	$1.30
ASZ15 (OC28)	Z-1160	$4.50	$4.30	$4.00
ASZ16 (OC29) (Use ASZ18)				
ASZ17 (OC35) (Use ASZ15)				
ASZ18 (OC36)	Z-1168	$4.50	$4.30	$4.00
AY8171 (Use TIP31B)				
AY9171 (Use TIP32B)				
AY8149 (Use 2N3055)				
AY9149 (Use 2N5871, MJ2955)				
BC107 (BC547, BC182, BC207)	Z-1300	25c	22c	14c
BC108 (BC548, BC183, BC208)	Z-1308	25c	22c	14c
BC109 (BC549, BC184, BC209)	Z-1319	27c	24c	18c
BC109C (BC549C, BC209C)	Z-1329	49c	44c	34c
BC157 (BC177, BC212, BC557)	Z-1340	33c	29c	25c
BC158 (BC178, BC213, BC558)	Z-1348	33c	29c	25c
BC159 (BC179, BC214, BC559)	Z-1359	30c	26c	20c
BC186 (Use BC157, BC177)				
BC635	Z-1380	82c	77c	70c
BC636	Z-1382	75c	70c	60c
BC639	Z-1388	75c	70c	60c
BC640	Z-1389	75c	70c	60c
BCY70 (Use BCY71)				
BCY71	Z-1241	95c	85c	60c
BCY72	Z-1242	75c	70c	50c
BD137 (Use BD139)				
BD138 (Use BD140)				
BD139	Z-1443	95c	90c	85c
BD140	Z-1444	95c	90c	85c
BD262	Z-1460	$1.92	$1.70	$1.55
BD263	Z-1462	$1.92	$1.70	$1.55
BDY20 (Use 2N3055)				

Type	Cat.	Price 1-9	Price 10-99	Price 100 up
BDY97	Z-1430	$9.50	$9.40	
BF115	Z-1560	90c	85c	70c
BF167 (Use BF115)				
BF173 (BF199)	Z-1590	$1.00	90c	80c
BF177 (BF337)	Z-1596	$1.50	$1.40	$1.20
BF178 (BF336)	Z-1598	$1.50	$1.40	$1.20
BF179 (BF337)	Z-1599	$1.60	$1.50	$1.00
BF180	Z-1602	$1.20	$1.10	90c
BF184	Z-1604	$1.00	95c	85c
BF185	Z-1608	85c	75c	70c
BF194 (Use BF184)				
BF194 (Use BF184)				
BF195 (Use BF185)				
BF200 (Use BF180)				
BFW10 (Use 2N5459 F.E.T.)				
BFW11 F.E.T.	Z-1500	$1.75	$1.50	$1.40
BFW61 F.E.T.	Z-1510	$1.45	$1.30	$1.20
BFY50	Z-1530	90c	80c	70c
BFY51 (Use BFY50)				
BFY52 (Use BFY50)				
CL33	Z-1750	$1.00	90c	80c
CL34	Z-1752	90c	80c	75c
D13T1 (2N6027) P/U.J.T.	Z-1780	$1.54	$1.43	$1.35
DS2646 (2N2646) U.J.T.	Z-1786	$1.00	80c	60c
FPT100 (Photo Transistor)	Z-1950	$2.00	$1.80	$1.60
MEL12 (Photo Darlingtor)	Z-1952	$2.50	$2.20	$2.00
MJ2955	Z-1800	$2.40	$2.10	$1.90
MJ3055	Z-1804	$1.80	$1.60	$1.40
MPF102 F.E.T.	Z-1832	60c	50c	45c
MPF103 (2N5457) F.E.T.	Z-1834	60c	50c	45c
MPF104 (2N5458) F.E.T.	Z-1836	$1.10	$1.00	80c
MPF105 (2N5459) F.E.T.	Z-1838	65c	58c	50c
MPF106 (2N5485) F.E.T.	Z-1840	70c	60c	50c
MPF131 (MPF121) F.E.T.	Z-1848	$1.50	$1.20	$1.10
MU9610	Z-1870	50c	40c	30c
MU9660	Z-1874	50c	40c	30c
OC26 (AD149)	Z-1930	$2.20	$1.85	$1.60
OC28 (Use ASZ15)				
OC44	Z-1932	55c	50c	45c
OC45 (Use OC44)				
OC70 (Use OC71)				
OC71	Z-1941	75c	70c	65c
OC72	Z-1942	75c	70c	65c
OC74	Z-1944	75c	70c	65c
OC75	Z-1945	50c	45c	40c
TIP31A (Use TIP31B)				
TIP32A (Use TIP32B)				

Type	Cat.	Price 1-9	Price 10-99	Price 100 up
TIP31B	Z-2020	95c	90c	80c
TIP32B	Z-2024	$1.00	95c	85c
TIP2955 (MJE2955)	Z-2005	$1.53	$1.20	$1.10
TIP3055 (MJE3055)	Z-2008	$1.50	$1.30	$1.20
TT797 (Use TT800)				
TT798 (Use TT801)				
TT800	Z-2064	$1.00	95c	90c
TT801	Z-2068	$1.00	95c	90c
2N301	Z-2126	$3.00	$2.80	$2.60
2N706A (Use BC108, etc.)				
2N2646 (Use DS2646)				
2N2926 (Use BC107)				
2N3053	Z-2130	80c	70c	60c
2N3054	Z-2140	$1.70	$1.60	$1.40
2N3055	Z-2145	$1.50	$1.20	$1.00
2N3563	Z-2180	80c	70c	65c
2N3564	Z-8182	60c	55c	50c
2N3565 (Use BC108)				
2N3566 (Use BC547)				
2N3567 (Use 2N3568)				
2N3568	Z-2188	.82c	77c	70c
2N3569 (BC337)	Z-2190	71c	66c	60c
2N3638 (MPS3638)	Z-2240	49c	44c	40c
2N3638A (MPS3638A, BC328)	Z-2242	60c	55c	50c
2N3640 (Use 2N3645)				
2N3641 (Use 2N3642)				
2N3642 (BC337)	Z-2250	49c	46c	42c
2N3643 (BC338)	Z-2252	60c	55c	50c
2N3644 (Use 2N3645)				
2N3645 (BC547, BC327)	Z-2256	57c	52c	40c
2N3702 (Use BC547, BC327)				
2N4250 (BC557B, BC549C)	Z-2320	80c	70c	45c
2N4258 (PN4258)	Z-2326	60c	55c	50c
2N4292 (Use 2N3563)				
2N5484	Z-2340	$2.75	$2.50	$2.00
2N5589	Z-2389	$6.50	$5.75	
2N5590	Z-2390	$8.50	$7.95	
2N5591	Z-2391	$9.75	$9.00	
2N6084	Z-2394	$18.50	$16.75	
2SB337	Z-2480	$1.00	90c	70c
2SB367	Z-2484	$1.00	90c	70c
40250 (Use 2N3054)				
40327	Z-2560	$1.10	.99c	.95
40408	Z-2580	$2.75	$2.64	$2.40
40409	Z-2582	$3.30	$3.19	$2.90
40410	Z-2584	$3.30	$3.20	$2.90

SILICON RECTIFIER DIODES

Small Plastic Types

Type No.	P.I.V.	If(A)	Cat.	Price 1-9	Price 10-99	Price 100 up
IN4001 (EM4005)	50	1	(Use 1N4002)			
IN4002 (EM401)	100	1	Z-3202	15c	12c	8.5c
IN4004 (EM404)	400	1	Z-3204	20c	15c	9.5c
IN4007 (EM410)	1000	1	Z-3207	30c	25c	20c
IN5408	1000	3	Z-3228	65c	60c	50c
Economy S0—10 Stud Mount Types						
MR110	100	10	Z-3240	90c	85c	80c
MR410	400	10	Z-3244	$1.20	$1.10	$1.00
Automotive High Current Press Fit Types						
BYX21L/200	200	25	Z-3260	$2.20	$2.00	
BYX21L/200R	200	25	Z-3262	$2.20	$2.00	
Heatsink to suit BYX21L			H-3485	$1.50	$1.30	

RECTIFIER DIODE BRIDGES

P.C. Mount Plastic Encapsulation Types	P.I.V.	If(A)	Cat.	Price 1-9	Price 10 up
PF10 (MB1)	100	1.8	Z-3300	$1.50	$1.30
PF40 (MB4)	400	1.8	Z-3304	$1.95	$1.75
For 800 or 1000 Volt bridge requirements use IN4007 (EM410)					
Metal Case Heavy Duty Types					
PA40	400	8	Z-3324	$6.00	$5.75
PA60	600	8	Z-3326	$7.40	$7.15
PB40 (MDA3501)	400	25	Z-3334	$7.20	$7.00

ZENER DIODES

Phillips — Motorola — Fairchild — I.D.I.

See data section for type numbers.

400mW @ 50°C. Cat. Z-3400 Price 1—9 Price 10—99 Price 100 up
Voltage Range (Specify value required)
3.3, 3.6, 3.9, 4.3, 4.7, 5.1, 5.6, 6.2, 6.8, 7.5, 8.2, 9.1, 10.0, 11, 12, 13, 15, 16, 18, 20, 22, 24, 27, 30, 33. 35c 32c 23c

1 Watt @ 50°C. Cat. Z-3500
(Will dissipate up to 3W. at 75°C with 3/8" lead length as Heat Sink)
Voltage Range (Specify value required)
4.7, 5.1, 5.6, 6.2, 6.8, 7.5, 8.2, 9.1, 10.0, 11, 12, 13, 15, 16, 18, 20, 22, 24, 27, 30, 33. 75c 65c 50c

10 Watt @ 50°C. Stud Types Cat. Z-3600
Voltage Range (Specify value required)
8.2, 9.1, 10, 11, 12, 13, 15, 16, 18. $1.75 $1.45

SMALL SIGNAL DIODES

Type No.	Type	Cat.	1-9	10-99	100 up
AA119	Germ. AM.FM Detector	Z-3020	30c	25c	20c
OA90	Germ. General Purpose	Z-3030	30c	20c	15c
OA91	Germ. General Purpose	Z-3040	25c	20c	9c
OA95	Germ. General Purpose	Z-3050	30c	20c	15c
BA100	Silicon General Purpose	Z-3060	35c	30c	25c
BA102	Silicon Var. Cap.	Z-3070	65c	60c	55c
BA114	Silicon Bias Stabilizer	Z-3080	45c	40c	35c
OA200	Silicon Small Signal	Z-3090	35c	30c	25c
OA202	Silicon Small Signal	Z-3100	35c	30c	25c
IN4148	Silicon Small Signal High Speed Switch (IN914A)	Z-3120	12c	10c	6.2c

SCR'S SILICON CONTROLLED RECTIFIER

Economy Plastic Packs

Type No.	Vdrm	It.rms(A)	Use	Cat.	Price 1-9	Price 10-99	Price 100 up
C103B	200	.8	Small Current	Z-4310	$1.95	$1.70	$1.56
C106Y1	39	4	Sensitive Gate	Z-4315	$1.00	95c	85c
C106D1	400	4	Sensitive Gate	Z-4320	$1.50	$1.30	$1.20
C122D (S400/8RS2)	400	8	A.C. Switch	Z-4330	$2.60	$2.30	$2.00
C122E (TIC126E)	500	8	A.C. Switch	Z-4332	$2.70	$2.20	$1.85
Economy TO-48 Stud Packs							
C164D	400	16	High Current	Z-4354	$3.25	$2.75	$2.30
C168D	800	16	High Current	Z-4358	$4.95	$3.95	$3.69

TRIACS SILICON AC SWITCHES

Economy Plastic Packs

Type No.	Vdrm	It.rms(A)	Use	Cat.	Price 1-9	Price 10-99	Price 100 up
SC141D (Q-4006L4)	400	6	A.C. Switch	Z-4510	$2.00	$1.80	$1.75
SC146D	400	10	A.C. Switch	(Use SC151D)			
SC151D (TIC246D)	400	15	A.C. Switch	Z-4520	$2.50	$2.10	$1.90

DIACS AC TRIGGER DIODES

Type No.	Use	Cat.	Price 1-9	Price 10 up
BR100	Suit. Trigger for S.C.R.'s	Z-4710	$1.00	90c
ST4	Asymmetrical A.C. Trigger Diode (Suit. Trigger for SC141D—SC146D)	Z-4740	$1.10	90c
V413	Suit Trigger for S.C.R.'s	Z-4760	$1.65	$1.10

SILICON SWITCH

Type No.	Vr.	It.	Use	Cat.	Price 1-9	Price 10 up
BRY39	70	250mA	Small current control switch	Z-4450	$1.30	$1.20

LEDS LIGHT EMITTING DIODES

Type No.		Diam	Cat.	Price 1-9	Price 10-99	Price 100 up
RL-209-R	Small red	.124"	Z-4010	30c	25c	20c
RL-211-G	Small green	.124"	Z-4020	60c	55c	45c
TIL-220R	Large red	.2"	Z-4030	35c	25c	19c
TIL-220-O	Large orange	.2"	Z-4032	55c	45c	40c
TIL-220-Y	Large yellow	.2"	Z-4032	55c	45c	40c
TIL-220-G	Large green	.2"	Z-4032	55c	45c	40c

(See Data Section for operation from higher voltages)

12 DIODE ARRAY

This pack has been made up with the view to such uses as electronic V.U. meters, novelty games or any project requiring a thermometer type scale. They are very bright little guys, very efficient, quality at a bargain price. Vf 1.7V. @ 10 mA Fit 1" x 1" Matrix. Pack contains matching 1 x Red, 1 x Yellow, 10 x Green In-Line Array (can be separated with fine saw).

PACK SEM 5

Cat. Z-9005 .. .. $4.00

7 SEGMENT LED DISPLAYS

Type No.	Char Height	Type	Cat.	1-9	10-99	100 up
DL704	.3"	Com. Cath.	Z-4110	$2.50	$1.70	$1.20
DL707	.3"	Com. Anode	Z-4117	$2.50	$1.70	$1.20
DL747	.63"	Com. Anode	Z-4127	$3.50	$3.00	$2.70
FND500	.5"	Com. Cath.	Z-4150	$2.95	$2.75	

PHOTO SENSITIVE DEVICES

Type No.	Type	1—9	10—99
FPT100 Cat. Z-1950	Silicon Photo Transistor with lens V_{CE} 50 typ. @ I_{CE} (It) 1.4mA typ. @ H=5mW/cm² with V_{CE}=5	$2.00	$1.80
MEL12 Cat. Z-1952	Silicon Darlington Transistor with lens V_{CE} 40 typ. @ I_C (It) 3mA typ. @ H=3mW/cm² V_{CE} with V_{CE}=5 — Dark Current max. 100uA. with V_{CE}=5	$2.50	$2.20
ORP12	Light dependent resistor Dark value 100Megohms Light value 75 — 300 ohms Cat. Z-4800	$1.45	
DSE12	Double light dependent resistor Dark value 200k ohms Light value 330 ohms Cat. Z-4802	$0.75	

SEMICONDUCTORS

SPECIAL LOW PRICE

SILICON OUTPUT TRANSISTORS

Quality Motorola product at incredibly low prices.

VALUE

Flat plastic pack — Vce. 30V — Ic. 2A.
High gain 80-400 — Ft. 70MHz. — Ptot.1W.
Suitable for amplifiers, power supplies, convertors. Could be used in place of TT800 (MU9660) & TT801 (MU9610) where supply voltage does not exceed 30V.

Type	Cat.	1-9	10-99	100 up
MU9610 N.P.N.	Z-1870	50c	40c	30c
MU9660 P.N.P.	Z-1874	50c	40c	30c

FROM 30c

POWER TRANSISTOR BONANZA

CAR RADIO

BRAND NEW 2SB337 Top Quality Germanium Transistor in TO-3 Case.
VCE 30V. Ic. 7A. This is an ideal replacement transistor for car radio, stereo, power supplies etc. WILL DIRECTLY REPLACE 2N301, OC26, AD149, AT1138, and other similar germanium transistors. *less than half price.*

Servicemen ... save yourself a mint —

LESS THAN 1/2 PRICE

	1–9	10–99	100 up
Cat. Z-2480	$1.00	90c	80c

RADAR MODULE

This is the solid state CL8963 (CL8960) Radar Module complete as used in E.A. and E.T.I. burglar alarm projects.

CL8963 (CL8960) Z-6840 .. .. $41.00

VALVES

We stock only top quality brand new valves from leading manufacturers.
NOTE: Several valves have been discontinued by manufacturers and are difficult to obtain. If the valve you require is not listed below, please enquire. We may still have limited stocks!

	Cat.	Price		Cat.	Price
1B3GT	Z-9800	$2.10	6DQ6A	Z-9902	$3.56
1S2	Z-9802	$1.54	6DT6	Z-9904	$1.64
IX2/A/B	Z-9803	$2.40	6DX8	Z-9906	$1.84
5AS4	Z-9804	$2.64	6EA8	Z-9908	$1.90
5Y3GT	Z-9806	$2.10	6EB8	Z-9910	$2.86
6AL3	Z-9818	$2.64	6EH7	Z-9912	$1.82
6AL5	Z-9820	$1.91	6EJ7	Z-9914	$1.82
6AN7A	Z-9822	$2.86	6EM5	Z-9916	$2.32
6AQ5	Z-9824	$1.90	6ES8	Z-9918	$2.44
6AQ8	Z-9826	$2.44	6FC7	Z-9922	$3.36
6AU4GT/A	Z-9828	$2.66	6GK5	Z-9924	$3.17
6AU6	Z-9830	$1.56	6GV8	Z-9926	$2.26
6AV6	Z-9832	$1.60	6GW8	Z-9928	$2 28
6AW8A	Z-9834	$2.59	6HG8	Z-9930	$2.12
6BA6	Z-9836	$1.58	6HS8/6BU8	Z-9932	$2.16
6BD7	Z-9838	$2.48	6JW8	Z-9934	$2.80
6BE6	Z-9840	$2.08	6KV8	Z-9936	$5.64
6BH5A	Z-9842	$2.58	6N8	Z-9942	$2.52
6BL8	Z-9848	$1.50	6SN7GT/A	Z-9946	$2.34
6BM8	Z-9850	$1.68	6U8A	Z-9948	$1.90
6BQ5	Z-9852	$1.98	6U9	Z-9950	$3.13
6BQ7A	Z-9856	$2.08	6V4	Z-9952	$1.80
6BX6	Z-9864	$1.87	6V6/GT	Z-9954	$2.34
6BY7	Z-9866	$2.44	6V9	Z-9956	$4.48
6BZ6	Z-9868	$1.54	6X4	Z-9958	$1.47
6CA4	Z-9870	$1.80	6X5GT	Z-9960	$3.38
6CA7	Z-9872	$3.47	6X9	Z-9962	$2.86
6CB6A	Z-9874	$1.54	6Y9	Z-9964	$3.58
6CG7	Z-9878	$1.50	12AN7A	Z-9966	$3.18
6CG8A	Z-9880	$2.24	12AT7	Z-9968	$1.72
6CK6	Z-9882	$3.40	12AU7A	Z-9970	$1.50
6CM5	Z-9884	$2.44	12AX7	Z-9972	$2.78
6CQ8	Z-9888	$1.98	12BA6	Z-9974	$1.86
6CS6	Z-9890	$2.28	12BH7A	Z-9976	$1.78
6CW5	Z-9892	$1.94	12BY7A	Z-9978	$1.98
6CW7	Z-9894	$1.98	EF86	Z-9980	$2.24
6CZ5	Z-9896	$2.32			

BULK DIODE PRICES

SPECIAL BULK QUANTITY PRICE ON DIODES

SAVE!

Quality, Brand new famous manufacturer silicon diodes. Buy in bulk and save a fortune. Fully guaranteed.

Type			Cat.	Price 1-9	Price 10-99	Price 100-999	Price 1000 up
IN4002	100V	1A	Z-3202	15c	12c	8.5c	5.5c
IN4004	400V	1A	Z-3204	20c	15c	10c	7.5c
IN4148 (IN914A)			Z-3120	12c	10c	6.2c	4.2c

High Speed Switch

SUPER HIGH VOLTAGE

SUPER HIGH VOLTAGE DIODE SPECIAL

New low prices on miniature high rating silicon plastic encapsulated diodes.

If. 3A. Vpi. 1000V

These diodes can be used to replace any diodes with lower rating.

Type	Cat.	Price 1-9	Price 10-99	Price 100-999	Price 1000 up
IN5408	Z-3228	65c	60c	50c	42c

HUGE SAVING

SPECIAL DS2646 UNIJUNCTION

S.T.C. brand new metal can, gold plated leads.
Equiv. 2N2646 Vbb. 35V. Ic. 50mA.
Pd. 300mV.

	1–9	10–99	100 up
Cat. Z-1786	$1.00	.80c	.65c

2SB367 GERMANIUM

CAR STEREO

P.N.P. OUTPUT TRANSISTORS
Special output transistor for Clarion radios, stereos and other Japanese makes. Slightly different case from T0-66 Vce. –25V. Ic–400mA. Ptot – 4W., Hfe – 100. Ideal for the hobbyist.

	1–9	10-99	100 up
Cat. Z-2484	$1.00	90c	80c

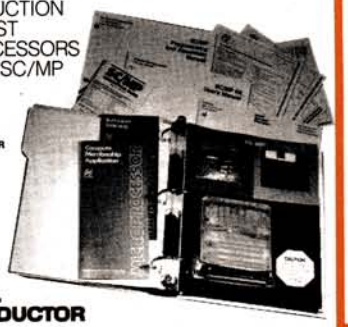
SINCLAIR IC-12

Available again! The Sinclair IC12 integrated circuit amplifier kit. A versatile output stage capable of high performance. With a small number of components, a complete amplifier can be assembled in a few minutes. Kit of parts including PC board are packaged together with a comprehensive instruction manual, giving all specs & circuits.
Specifications:
8 – 28V supply • Up to 6W rms into 8 ohms • 3 – 16 ohm loads • Variable gain • Variable input impedance • No signal current 10mA • Total harmonic distortion 0.1% • Frequency response 15Hz – 500kHz

	1–9	10 up
Cat. F-4418	$9.50	$7.50

MICROPROCESSOR CORNER

AN INTRODUCTION TO LOW COST MICROPROCESSORS FEATURING SC/MP



SEE PAGE 24 OF OUR OUR KIT SECTION FOR OUR FAN-TASTIC NEW MICROCOMPUTER KIT!

NATIONAL SEMICONDUCTOR

SC/MP MICROPROCESSOR KIT

The SC/MP Demonstration Kit includes all the integrated circuits & discrete components required to build a small and completely functional microprocessor system. The kit includes the following items: • SC/MP microprocessor chip • 256 bytes (8 bits/byte) of read/write memory (RAM) for storage of user programs • 512 bytes of pre-programmed read-only memory (ROM) containing a debug program and Teletype input output routines • An 8 bit buffer between the outputs of the memory devices and the SC/MP chip inputs • Interface circuitry to provide the level conversions and drive requirements for a serial input/output interface to a Teletype • Voltage regulator and crystal to meet the SC/MP power and timing requirements • Printed circuit board on which the components can be mounted • Mounting sockets for SC/MP and ROM chips • 72 pin edge connector socket • All required discreet components

The kit allows both the microprocessor veteran and the newcomer to build and exercise a viable microprocessor system.

Additionally, the SC/MP Kit is ideally suited to quickly implementing a variety of simple 'real life' applications and demonstrations. For example, the input/output control signals and control—oriented instruction set allow the kit to function as a program-controlled timer and to operate external lights, switches and controls. Photographic lights lawn sprinkler systems and alarm & security systems are just a few examples of possible applications.

Cat. Z-9200 .. .. $92.00

SINCLAIR IC-24

A high quality integrated circuit amplifier wired in a bridge form to give a massive 24 watts peak output. Supplied complete with circuit board, components, heatsink and instructions. Makes ideal amp for auto equip., record players, cassettes, radios, etc.
Specifications:
* Assembled in 30 minutes; * Output up to 24W. peak, 12W. R.M.S.
* Chip response 5 Hz - 100 KHz; * T.H.D. Typ. .2% @ 4W output;
* Supply 10-35V DC; * Output impedance 8-16 ohms; * Input impedance approx. 100K ohm; * Input sensitivity 10-30 mV
* Dimensions of circuit board 70 mm W x 75 mm L
An ideal convenient amplifier for the enthusiast or professional. Kit including components.

Cat. F-4420 .. .. $15.00

SPECIAL RF TRANSISTORS

Special High quality R.F. Transistors for updating your old 2M mobile.

2N5589	7 Watt	Cat. Z-2389	$6.50
2N5590	15 Watt	Cat. Z-2390	$8.50
2N5591	30 Watt	Cat. Z-2391	$9.75
2N6084	45 Watt	Cat. Z-2394	$18.50

Update your 10 Watt to 35-45 Watt

SPECIAL NEW LOWER PRICES

MOTOROLA PREMIUM QUALITY

SILICON OUTPUT TRANSISTORS

HIGH POWER

These feature "Epi-Base" construction to achieve maximum thermal conduction. Recommended for high power, high quality amplifiers, power supplies, high current switches etc. Metal case TO3

Type No.		1–9	10–99	100 up
MJ2955 P.N.P.	Cat. Z-1800	$2.40	$2.10	$1.90
MJ3055 N.P.N.	Cat. Z-1804	$1.80	$1.60	$1.40

TO-3 MOUNTING KIT

This kit consists of a quality mica insulating washer and 2 heat resisting insulating bushes. Suits 6BA screws. Pack of 4 Kits.

Cat. H-1917.. .. .. 65c

TO-3 CAP

TRANSISTOR INSULATING CAP

Cat. H 1918 .. .. 35c

COMPUTER KEYBOARD

60 KEY KEYBOARD

$49.50

This keyboard features 60 unencoded SPST keys. Each keyswitch is individual and independent. With suitable interface it is ideal for ASCII and/or BAUDOT conversion. White legend on black keys. Key buttons are interchangeable with each other if required. Suitable interface ICs would be the HD0165 or MM5740AAF.

Cat. X-1180 .. .. $49.50

KEYBOARD/INTERFACE CHIPS

HD0165	Cat. Z-9301	Keyboard Decoder	$10.12
MM5740AAF	Cat. Z-9302	Keyboard Prom.	$19.75

GAS DISCHARGE DISPLAYS 8 DIGIT

FANTASTIC GAS DISCHARGE DISPLAY

This display represents fantastic value at less than 90 cents per digit. Each digit is 9mm. high, the actual 8 digits of display are spread over a length of 76mm. The output light level is high. The output leads are terminated in a plug form that plugs into a gold plated socket supplied free. This is a multiplexed display suitable for calculators, clocks, D.V.M.'s, frequency counters, etc. Requires 150 to 180V. @ 1 to 1.5mA. per segment to operate. Overall dimensions including moulded plug 105mm.W x 41mm.H.
Use our M-2820 transformer with this display.

Cat. S-3890 .. .. $6.75

R.C.A. 40327

HIGH VOLTAGE TRANSISTOR SPECIAL

BARGAIN PRICE

N.P.N. Top quality R.C.A. transistor in TO5 case. Vcer = 300V. Ic = 1A., Pt = 5W, temperature range Oper. junction –65 to 200° C. Hfe = 40–250 @ Ic 20mA. Brand new

Could be used for gas discharge display driver, neon display driver, high voltage driving and deflection circuits, high voltage pre-amps, relay switching circuits. BARGAIN PRICE . . .

	1–9	10–99	100 up
Cat. Z-2560	$1.10	99c	.80c

FROM 80c

GAS DISCHARGE DRIVER

QUALITY

These transistors are suitable for driving 7 segment gas discharge displays on clocks, counters, timers etc. They have a Vce = 180V. Case is standard. TO–106 min. epoxy.

	Cat.	1-9	10-99
N.P.N. CL33	Z-1750	$1.00	90c
P.N.P. CL34	Z-1752	90c	80c

COIL FORMERS AND ACCESSORIES

Code	Description	Cat. No.	1-9	10 up
722/1	5mm former, subminiature (4mm core)	L-1010	22c	20c
5027/6PLB	6 Pin base to suit above	L-1015	22c	20c
7100	Can to suit above ½" x ½" x ¾" high	L-1020	22c	20c
5200/8PLB	Double 8 pin base for 722/1 former	L-1025	22c	18c
7300	Can ½" x 1" x ¾" high to suit above	L-1030	22c	18c
722/4	5mm former 1½" high (for I.F.)	L-1035	22c	18c
7101	Can ½" x ½" x 1½" suit above	L-1040	22c	18c
3510	7mm former ¾" high twin 6BA base mounting	L-1045	22c	18c
N4LT1	Tag ring for above, 4 connections	L-1050	16c	11c
691/4TS	7mm former P.C. board mounting, fibreglass, 6 pins	L-1055	33c	27c
655	7mm former 1–1/8" long 4 wire leads	L-1060	38c	33c
5000B/6PLB	7mm former 2½" high with 6 pin base	L-1065	38c	33c
5001/4E	Top plate for above, 4 connections	L-1070	11c	09c
D.TV1	¾" square can suit 5000B former	L-1080	44c	40c
5000A/6PLB	7mm former 1¼" high with 6 pin base	L-1090	44c	40c
DTV2	¾" can to suit above	L-1100	40c	33c
2000	½" diam. x 1¼" former tapped 4 B.A. for stem	L-1110	44c	38c
FC1	Chassis mounting clip for above	L-1120	05c	04c

CORES – FERRITE AND IRON DUST

Ferrite Cores:

4mm, for Neosid 722 formers. Two styles, F16 (500kHz to 15MHz) and F29 (10MHz to 300MHz). Both 0.5 pitch x 10mm long, slotted cores.

Type F16 (Pack of 4 slugs)	L-1302	60c pack of 4
Type F29 (Pack of 4 slugs)	L-1307	60c pack of 4

Iron dust cores

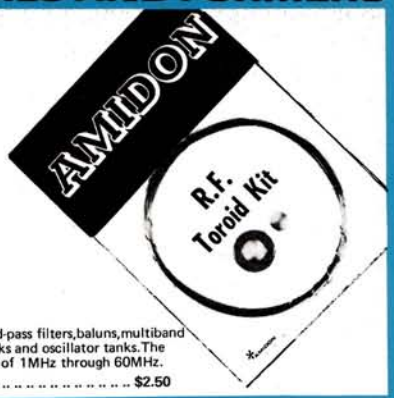
6mm, for Neosid 3510,2450,655 & 5000 formers.

H6 x 1 x 12 x 500 (up to 10MHz)	L-1312	60c pack of 4
H6 x 1 x 12 x 900 (5MHz to 60MHz)	L-1317	60c pack of 4
H6 x 1 x 12 x 901 (30MHz to 200MHz)	L-1322	60c pack of 4
H6 x 1 x 12 x 910 (to 300MHz)	L-1327	60c pack of 4

Balun Formers

1050/1/F14 (40 to 200MHz)	L-1340	$1.00 pack of 2
1050/2/529 (10MHz to 220MHz)	L-1352	$1.00 pack of 2

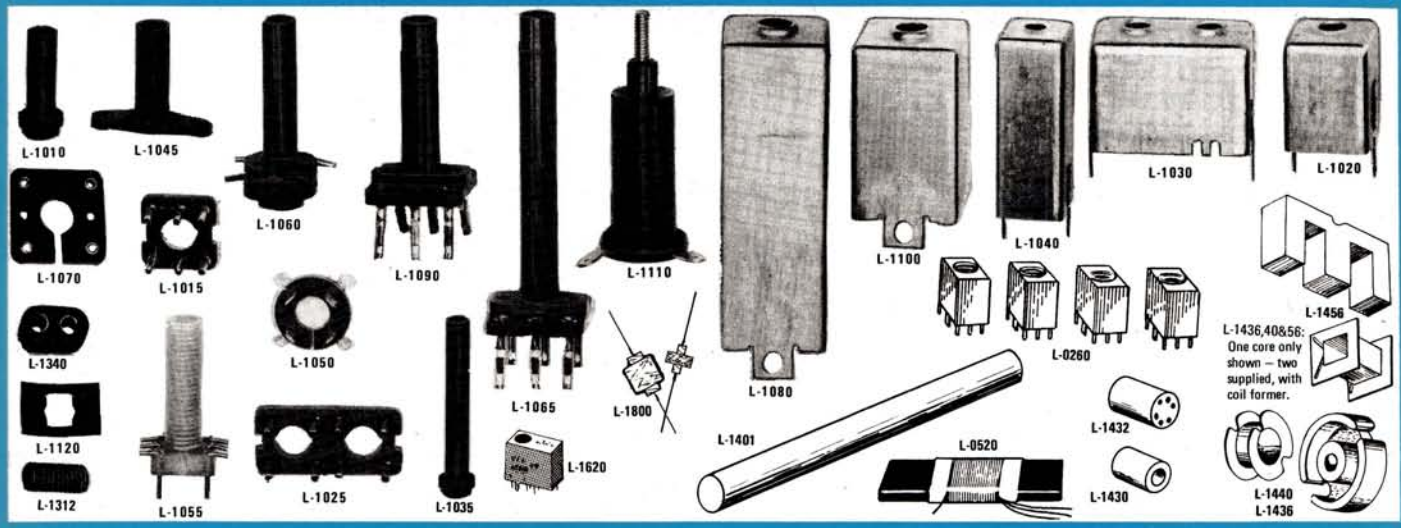
WIND YOUR OWN TOROID COIL $2.50



R.F. TOROID KIT
Contains two iron powder cores, enamelled copper wire, application notes, inductance chart and an LCF nomograph. Toroids are used to advantage in Tank circuits, Pi networks RF transformers, T-Networks, floating tanks, band-pass filters, baluns, multiband tuners, antenna loading coils, RF traps, IF networks and oscillator tanks. The two cores provide a useful high Q spectral range of 1MHz through 60MHz.
Cat. L-1410.. .. .. $2.50

WIND YOUR OWN BALUN COIL $12.50

R.F. BALUN KIT
Contains a large, quality balun core (2in dia) with a quantity of heavy gauge wire. suitable for up to 1kW. Full instructions and data sheets supplied.
Can be used for a number of antenna types, up to around 30MHz.
Can also be used, in many cases, to elminate rf breakthrough from CB & amateur transmitters into audio amplifiers. If the speaker leads are wound through the core (as many turns as will fit) the core stops RF energy entering the amplifier in this way. Often very successful!
Cat D-5350 .. .. $12.50



muRata Ceramic Filters

		1–9	10 up
SFD455B (SF455D) the modern replacement of the if transformer. Two resonators are coupled by an external capacitance to give maximum selectivity with a flat response. Typical selectivity 20dB min at ± 10kHz with 3dB bandwidth of ± 4.5kHz	L-1605	$1.75	$1.50
SFB455A (SF455B) A resonance type filter for 455kHz to replace the transistor radio ift.3dB bandwidth is 10kHz ± 3kHz; input and output impedance is 3kohm with a maximum insertion loss of 5dB.	L-1610	.80c	75c
BFB455A (BF455A) Improves selectivity by replacing the emitter by-pass capacitors in transistor if stages. Simplifies alignment and gives long term reliability	L-1615	80c	75c
YFL455A An if filter which features conventional windings as well as a ceramic filter. Typical selectivity is 19dB down at ± 10kHz with 3dB bandwidth being 5.5kHz min.	L-1620	$2.60	$2.30

RF CHOKES

We stock a full range of RF chokes:

All values from 10uH to 800uH .. (Specify inductance). ..	L-1800	$1.00
1mH	L-1820	$1.50
1.5mH	L-1822	$1.50
2.5mH	L-1824	$2.00
5mH	L-1826	$2.40
10mH	L-1830	$2.50

AERIAL, IF & OSC COILS

OSCILLATOR & AERIAL COILS

S201 Shielded subminiature oscillator coil 5/8" square x 1½" high. No padder capacitor required.	L-0201	$3.35
S203 Shielded subminiature aerial coil 5/8" square x 1½" high.	L-0203	$4.25
SLUG TUNED IF/OSC COIL PACK Comprises set of 1st, 2nd & 3rd 455kHz std. miniature IF transformers and std b/c osc. coil. Ideal for service or experimental use.	L-0260	$1.20
AERIAL ROD WITH COIL Complete ferrite rod with pre-wound std b/c coil. Suits 140-160pF min. tuning gangs. Makes ideal transistor radio replacement.	L-0520	$1.00

FERRITE RODS & BEADS; POT & E CORES

Aerial Rods

L1 approx. 6½" long 3/8th diameter	L-1401	$1.15
L2 approx. 8" long ½" diameter	L-1403	$1.90

Toroids and Beads

FX1115 ferrite beads (as used in Playmaster 143, Twin 25, 40/40, etc).	L-1430	15c
Philips bead 4312-020-31550 (as used in 30W, 144MHz amplifier).	L-1432	40c

Pot Core Assemblies

Philips P36 assembly consisting of 2 cup cores and former. Replaces FX2242 and ideal for CDI. 36 mm core diameter.	L-1436	$2.90
P40 assembly as above but slightly larger. Replaces FX2243. 40mm dia.	L-1440	$3.90

E Core Assembly

E42/21/15'E' core assembly consisting of two cores and former. Suitable for fluoro light converters.	L-1456	$3.60

SEE THE BIG NEW CB RADIO SECTION ON PAGES 69 — 71

WIRES AND CABLES

SPEAKER FLEX

W-2010 MINI SPEAKER LEAD

Plastic insulated multi-purpose cable with two conductors. Marked with a trace for ease of maintaining polarisation. It is extremely flexible. Ideal for hi-fi speaker leads intercom wiring etc.

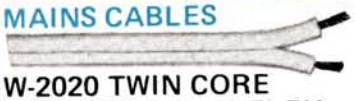
Cat. W-2010.. .. 15c/m. Bulk price 100 m or more 10c/m

W—2012 HEAVY DUTY SPEAKER FLEX

This is heavy duty speaker cable, capable of high power duty. Ideal for hi-power and P.A. systems up to 200 w. Because of it's low resistance, reasonable long runs to speakers are possible without any loss in power. Small in size, resilient, colour coded for easy polarity reference. Conductors 14/.0076 grey PVC with brown polarity stripe.

Cat. W-2012.. .. .. 18c/m - bulk price 100m 12c/m

MAINS CABLES



W-2020 TWIN CORE MAINS SPEAKER FLEX

Rated at 240V AC continuous — white plastic insulation as used for extension lights, standard lamps, etc., can also be used for speakers and intercoms if lower resistance is required.

Cat. W-2020.. .. 20c/m. Bulk price 100 m or more 15c/m

W-2055 3 CORE MAINS POWER CABLE

Standard 240V AC power cable for use where earth connection is required. Each wire is separately insulated and color coded and the three are contained in a plastic sleeve to give double insulation. Rated at 5 Amps continuous operation.

Cat. W-2055.. .. 40c/m. Bulk price 100 m or more 35c/m

SHIELDED AUDIO LEAD

SINGLE CONDUCTOR

PVC covered, light duty, very flexible cable — ideal for patch cords, pick up connections and small microphones. Color - grey.

Cat. W-2030.. .. 25c/m. Bulk price 100 m or more 20c/m

FIGURE 8 W-2036 TWIN CONDUCTOR

As with single conductor audio lead but with two conductors separately shielded in figure 8 pattern insulation. Ideal for stereo connections. Color - grey.

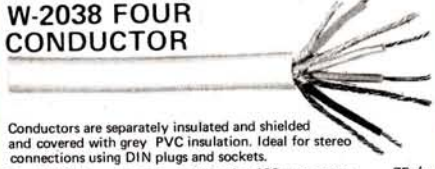
Cat. W-2036.. .. 45c/m. Bulk price 100 m or more 32c/m

HEAVY DUTY W-2037 TWIN CONDUCTOR

Each conductor is individually sheilded and colour coded. This cable has a heavy duty outer insulating sheath. We have specially selected this quality cable for stage and rock groups where heavy use is normal, ideal for outdoor use with equipment! It's tough but resilient.

Cat.W-2037 .. .. 60c/m Bulk price 100m or more 50c/m

W-2038 FOUR CONDUCTOR



Conductors are separately insulated and shielded and covered with grey PVC insulation. Ideal for stereo connections using DIN plugs and sockets.

Cat. W-2038.. .. $1.00/m Bulk price 100 m or more 75c/m

INDOOR OUTDOOR

T.V. RIBBON

W-2070 300 ohm T.V. feeder ribbon for connecting aerials to T.V. sets — Low loss and maintains perfect balance.

Cat. W-2070.. .. 15c/m. Bulk price 100 m or more 8c/m

COAXIAL CABLES

3C2V 75 OHM COLOR COAX

Designed for T.V. feeder systems. Cable has excellent dielectric and is suitable for use up to 400 MHz. It is 8 mm in diameter with shiny black insulation over braided shield. The solid centre conductor makes it ideal for use with "F" type connectors.

Cat. W-2080.. .. 35c/m. Bulk price 100 m or more 25c/m

COAX RG58RU LIGHT DUTY 52 OHM

For use up to 500 MHz making it ideal for both receiver and transmitter use on CB radio, boat radio, amateur and professional two-way radio. Flexible with stranded center conductor and black insulation. Diameter 6.25 mm.

Cat. W-2090.. .. 40c/m. Bulk price 100 m or more 30c/m

COAX UR67 HEAVY DUTY 52 OHM

Very low loss making it ideal for long run feeder systems and to ensure maximum operating range of transmitters. Color — Black. Diameter — 10 mm.

Cat. W-2095.. $1.35/m Bulk price 100 m or more .. $1.13/m

AMAZING STUFF! MINI COAXIAL CABLE

Amazing stuff! 50 ohm TEFLON insulated, this cable will handle up to 100 watts at 500 MHz. Better still, you can solder directly on to the shield braid without melting the TEFLON. Yet this cable is an incredibly small 2.5 mm in diameter making it perfect for wiring in transmitters where space is a problem.

Yes, it is very expensive but we assure you it is the very highest quality. Supplied in packs of one meter.

Cat. W—2088 .. .. $1.00

HOOK-UP WIRE

W-2220 10X 0.12 mm

PVC insulated and fully tinned for smooth soldering. Available in 12 colors to save you confusion in birdsnests.

Red	Yellow	Blue
Black	Green	Grey
Brown	Dark Blue	Cream
Orange	Purple	White

Cat. W-2220.. .. 8c/m. Bulk price 100 m or more 5c/m

W-2240 10X 0.19 mm

Slightly thicker fully tinned and PVC insulated, available in red and black.

Cat. W-2240.. .. 9c/m Bulk price 100 m or more 7c/m

W-2260 HEAVY DUTY HOOK-UP WIRE

23 x 0.19 mm (23/0076) Rated at 240V, 7.5 Amps. Available in red and black.

Cat. W-2260.. .. 17c/m Bulk price 100 m or more 15c/m

W-2280 SPECIAL HEAVY DUTY HOOK-UP WIRE

40 x 0.19 mm (40/0076) Rated at 240V, 10 Amps. Available in red and black.

Cat. W-2280.. .. 24c/m Bulk price 100 m or more 18c/m

HOOK-UP WIRE PACK SAVE! OVER 40%

Ideal for servicemen, experimenters and hobbyists. Bag contains 2 meters of each of 12 different colors, 10 x 0.12 hook-up wire.

Yes! That's a total of 24 meters for only $1.20

Cat. W—4010 .. .. $1.20

TELEPHONE CABLE

As used by the TELECOM AUSTRALIA for internal telephone wiring — ideal for intercoms and other internal multi-circuit wiring. Individually insulated and color coded. Solid copper conductors are fully tinned for good screw or solder connections.

4 CONDUCTOR

Cat. W-2120.. .. 35c/m Bulk price 100 m or more 27c/m

12 CONDUCTOR

Cat. W-2140.. .. 60c/m Bulk price 100 m or more 43c/m

RAINBOW CABLE

Ideal for wiring looms. 12 color coded strands bonded together to form a flat cable. Perfect for wiring under carpets for intercoms, etc. Can easily be split and used as hook-up wire as it has same rating as W-2220 **Minimum 5 metres per order.**

Cat. W-2045.. .. 60c/m Bulk price 100 m or more .. .. 50c/m.

RAINBOW CABLE PACK

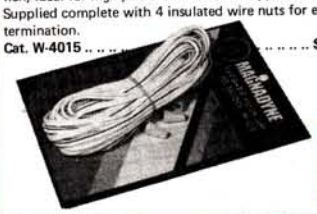
Pack contains 2 meters of rainbow cable (a total of 24 meters of wire) for only **$1.50** —

Cat. W—4012 .. .. $1.50

FIG 8 WIRE PACK

Handy pack consists of 25 ft of Fig 8 heavy duty speaker flex, ideal for high power hi-fi and P.A. applications. Supplied complete with 4 insulated wire nuts for easy termination.

Cat. W-4015 .. .. $1.50



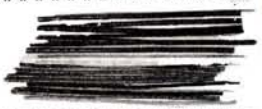
NEW

TEST LEAD WIRE PACK

Special 512 strand (YES 512 !) very highly flexible wire ideal for test leads, wiring to moving switches, sensors and so on. Very low resistance and only 3 mm in diameter. Sounds expensive but will last for years of use without breaking. Pack contains 2 meters each of red and black (4 meters total)

Cat. W—4016 .. .. $3.60

SPAGHETTI PACK



Contains 30 lengths in assorted colors and diameters each more than 150 mm long, that's over 4.5 meters of spaghetti but in useful sizes.

Order 2 packs to beat the price rise.

Cat. W-4040.. .. .. $1.75

HEAT SHRINK TUBING PACK

Makes your terminations look just like the professionals! We supply various lengths in an assortment of sizes including 1.5 mm, 2.8 mm 6.3 mm, 12.7 mm, 19 mm. The measurements are all internal diameter and will shrink up to 50% on applying heat — from hair dryer or soldering iron. The tubing retains its flexibility and therefore makes an ideal 'strain' cord on made up leads as well as improving their visual appearance.

Cat. W-4060.. .. .. $2.00

WINDING WIRE

on spools

Handy coils of enamelled copper winding wire — ideal for all coil winding, motor rewinding, transformer building, etc.
NOTE: Where possible this wire will be supplied with "Biceflux" insulation — simply heat wire with soldering iron and insulation will flow therefore no stripping is required.

B.& S. Gauge	S.W.G. Gauge	Approx. Length (Meters)	Net Wt. (Gram)	Cat. No.	Price
16	18	8	100	W-3116	$2.54
18	19	12	100	W-3118	$2.54
20	21	18	100	W-3120	$2.54
22	23	24	100	W-3122	$2.00
24	25	9	25	W-3124	$1.20
26	27	20	25	W-3126	$1.40
30	33	50	25	W-3130	$1.75
32	36	170	25	W-3132	$1.75
36	40	220	25	W-3136	$1.75
40	44	550	25	W-3140	$2.00

TINNED COPPER WIRE

VERY HIGH QUALITY 25 GRAM ROLL OF 22 SWG (Approx. 20 B & S) BRIGHT TINNED COPPER WIRE. TOTAL APPROX. 8 METERS — A MUST FOR THE WORKSHOP

Cat. W-3022.. .. .. $1.10

QUALITY TOOLS FOR THE PROFESSIONAL OR HOBBYIST

Dick has been in the electronics game for a long time. Over the years he has gained first hand knowledge of the requirements of people in or associated with the trade. Being a keen hobbyist himself, and one who has specialised in a sophisticated area of the industry in his time, he knows the tool requirements first hand. He not only selects tools from the local market but travels and researches the world market for new products to bring you quality products at down to earth prices.

Look over our tool listing to see the vast selection of tools to cover all requirements in electronics, whether you are a hobbyist or a professional engineer.

DICK'S VALUE PLUS SPECIAL

LOOK FOR THESE ITEMS

TYPICAL TOOL BAR RANGE

PLIERS AND CUTTERS

$4.50

TRANSISTOR NIPPER

HIGH QUALITY

These cutters represent excellent quality/cost ratio. Ideal for P.C. board work, assembly and repair. Insulated handles, length 115 mm, 14 mm cutting edge.

Cat. T-3200 .. .. $4.50

SLANT EDGE CUTTING NIPPER

LONG LASTING

This cutter features a box joint for more rigid support of the jaws which won't twist or distort. The cutting edge is fine and sharp for positive clean cut. Perfectly forged and tempered tool, ideal for electronics and electrical work where fine wires are being continuously cut. Black gun metal finish with insulated handles.

Length 125 mm, 22 mm cutting edge.

Cat. T-3210 .. .. $5.50

CUTTING NIPPER/STRIPPER

TWO TOOLS IN ONE

This cutter has a box joint for positive cut with sturdy insulated handles, chrome plated body. This cutter features 2 handy wire stripping holes, one 1.2 mm and one 1.6 mm, makes it two tools in one.

125 mm in length, 22 mm cutting edge.

Cat. T-3220 .. .. $5.25

ELECTRONIC CUTTING NIPPER

Has large rivet joint to prevent twisting, the cutting edges are fine and sharp to give a clean cut. Rigid handles for positive grip. Ideal for service work.

Insulated handles, length 125 mm, 18 mm cutting edge.

Cat. T-3230 .. .. $4.95

LONG NOSE CUTTING PLIER

EXCELLENT FOR THE TECHNICIAN

Has fine tip and serrated jaw for general use. Built in cutting edge. Budget priced, good value. Chrome plated finish with insulated handles.

Length 125 mm, jaws 40 mm.

Cat. T-3250 .. .. $4.50

FLAT NOSE PLIER

FOR DELICATE WORK

Has flat smooth jaws for work where a serrated jaw may cause damage. Ideal for precision instrument work and similar uses where a stable firm flat grip is required.

Chrome plated finish with insulated handles, budget priced.

Length 150 mm, jaws 42 mm.

Cat. T-3260 .. .. $4.25

SPECIAL LONG NOSE CUTTING PLIER

IDEAL FOR THE HANDYMAN

For general and all round use. The long nose jaw has gripping teeth and a wire stripping hole. A cutting edge is built into the chrome plated jaws. Another handy general purpose tool suited to heavier duty work.

Length 150 mm, 50 mm jaw.

Cat. T-3240 .. .. $5.25

COMBINATION PLIER

FANTASTIC HOLDING POWER – AMAZINGLY VERSATILE

Drop forged steel, chrome finish with insulated handles. This has a sliding type jaw capable of gripping a large range of work. The jaws have both course and fine serrations, the holding ability of this plier is fantastic no matter what the shape or section. Every workshop, toolbox should have one, you won't know what you have been missing till you have used one.

Budget priced – great value. Length 150 mm

Cat. T-3280 .. .. $3.00

SIDE CUTTING PLIER

HARDWORKING – LONG LASTING

For linesmen, electricians, and general purpose use. These are sturdy gunmetal, polished finish with insulating handles. Has flat serrated jaws with built in cutting edge. Excellent value.

Length 150 mm, jaws 25 mm.

Cat. T-3270 .. .. $4.50

HOBBYIST PLIERS AND CUTTERS

BUDGET PRICED FOR THE HOBBYIST

This range of tools has been selected for the hobbyist and do-it-yourself people. It is good quality material but does not have the life expectancy of the professional grade tools. They are budget priced, ready for work.

MINI DIAGONAL CUTTING NIPPER

A PLEASURE TO USE

Box joint construction, drop forged steel, cutting edge tempered and honed. Chrome plated finish with soft plastic handle grips.

Length 100 mm

Cat. T-3561 .. .. $3.25

MINI LONG NOSE PLIER

VERY VERSATILE

Drop forged steel, chrome plated finish with soft plastic handle grips. Long nose complete with in built cutter.

Length 100 mm.

Cat. T-3562 .. .. $3.25

MINI FLATNOSE PLIER

FOR DELICATE WORK

Drop forged steel, chrome plated finish with soft plastic handle grips. Long flat nose for positive grip. Length 100 mm.

Cat. T-3566 .. .. $3.25

MINI NEEDLE NOSE PLIERS

GET INTO THE MOST DIFFICULT CORNERS

Long slender needle nose to reach into the most confined space. Drop forged steel chrome finish with soft plastic handle grips. Length 100 mm.

Cat. T-3568 .. .. $3.25

CLAMPS

$4.95

SCISSOR CLAMPS

AS USED BY SURGEONS

Made of 127 mm stainless steel with a screw joint. Use them for pliers with the added advantage of the locking mechanism built into the handle, works like a third hand.

Cat. T-3690 .. .. $4.95

$1.20

PEARL CATCH

STAY CALM – YOU CAN REACH IT

For reaching into awkward places. Virtually a 3 pronged tweezer with syringe action. A must for small nuts and washers in hard to get places. Great for hobbyists, servicemen, tradesmen, jewellers, etc.

Cat. T-4660 .. .. $1.20

POINTED TWEEZER

Not just for splinters, ideal for handling small nuts, etc. Great for handling delicate instruments small wiring, etc. This one has very fine precise points.

Cat. T-4620 .. .. 85c

SERRATED JAW TWEEZER

75¢

GET A GOOD GRIP

Has flat serrated jaw for positive grip.

Cat. T-4630 .. .. 75c

PROFESSIONAL CUTTERS AND PLIERS

$7.95

PRECISION CUTTERS

A BEAUTIFUL PAIR – PROFESSIONAL QUALITY – LONGLASTING BEAUTIFUL FINISH

This cutter is only of the highest quality intended for professional use where continuous and precise work is necessary. Ideal for P.C. board, transistor and I.C. work. Has fine, sharp, precise flush cutting edge. It features spring loaded handle to relieve fatigue on continuous work. Polished finish quality steel with insulated handles, box joint construction.

Length 110 mm, 15 mm cutting edge.

Cat. T-3310 .. .. $7.95

$7.50

PRECISION FLAT NOSE PLIERS

FOR DELICATE PRECISION WORK – BEAUTIFULLY MADE

This plier has all the same quality features of the above cutter and is a mate to it. It has flat smooth jaws for a positive non-destructive grip. Ideal for work on delicate instruments.

Length 110 mm, 24 mm jaws.

Cat. T-3320 .. .. $7.50

CRIMPER TOOL AND LUG SETS

DELUXE WIRE STRIPPER $9.50

A SUPER STRIPPER BARGAIN

This is a completely automatic wire stripper, only one hand action is required to complete stripping operation. The multiple size head allows a wide wire size range from 1 mm to 3.2 mm. It has been designed for promoting the highest efficiency in operation, in such areas as radio and T.V. electric wire works, electricians, linesmen, etc. We are now able to offer this unit to you at great savings.

Cat. T-3620 .. .. $9.50

WIRE STRIPPER

Infinitely adjustable range, hardened jaws, last forever, unbeatable price, half the price of similar types.

Cat. T-3630 .. .. $1.50

PLIKE $5.75

THE RETURN OF THE PLIKE!
THIS WONDER TOOL IS NOW AVAILABLE AGAIN.

4 tools in one, long nose plier with serrated jaw, sturdy 3/8" cutter, crimper built into jaw, multisize wire stripper. A must for any workshop, electrician, linesman, do-it-yourself handyman. Made of carbon steel, has soft hand grips, a return spring to reduce fatigue.

Cat. T-3165 .. .. $5.75

CRIMPER TOOL AND LUG KIT

VALUE

$10.95

DICK LOOKED ALL OVER THE WORLD FOR THIS ONE

Why pay up to $40.00 for similar crimping tool kits. Yes, Dick has imported this great electrical repair and assembly kit that contains the following: 12 types of common colour coded and plated copper solderless lugs and terminals for easy identification and trouble free crimping. Sturdy crimping tool (worth nearly $9.00 by itself) that doubles as a wire stripper and cutter. Packaged in a see-through rugged plastic snap-lock case with mounting brackets to hang on the wall of the workshop. Large roll of P.V.C. insulation tape. This kit is a must – unbelievable value.

Cat. T-3510 .. .. $10.95

LUG CRIMPING TOOL

SAVE

$1.75

This versatile crimping tool will also strip & cut wire. Comes complete with a pack of lugs ready to use. Great value for such a useful tool.

Cat. T-3520 .. .. $1.75

INTERCHANGEABLE UTILITY SETS

UTILITY 20PC METRIC SIZE

JUST THE SET TO GET YOU STARTED.

THIS SET HAS TO BE SEEN TO BE BELIEVED. 20 PIECE NICKEL CHROME MOLYBDENUM STEEL WITH CHROME PLATED HANDLE PRESENTED IN A HANDY TRANSPARENT PLASTIC BOX. THE SET INCLUDES:

3 blade screwdrivers 1.5, 2.5 3.5 mm,
2 Philips screwdrivers No. 0, No. 1
3 Hex Allen Keys 1.5, 2.0, 2.5 mm
5 Open End Spanners 4.0, 4.5, 5.0, 5.5, 6.0mm
5 Spintights 3.0, 3.5, 4.0, 4.5, 5.0 mm
1 Tommy bar
1 Awl,
1 Handle Assy.

You will be proud to have this excellent quality, versatile set in your tool range. This is real value for your money.

Cat. T-4365 .. .. $4.25

UTILITY 20PC INCH SIZE

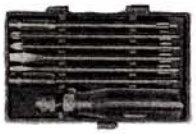
This is the same pack and quality as the metric but inch size.

3 Blade screwdrivers 1/16", 3/32", 9/64"
2 Philips screwdrivers No. 0, No. 1
3 Hex Allen keys .05", 1/16", 5/64"
5 Open end spanners 5/64", 3/32", 7/64", 1/8" 5/32"
5 Spintights 1/8", 5/32", 3/16", ¼", 5/16"
1 Tommy Bar
1 Awl
1 Handle Assy.

TERRIFIC VALUE – 20 PIECES FOR $4.25
UNBEATABLE

Cat. T-4370 .. .. $4.25

7 PIECE COMBINATION SET



$3.25

Here is a handy 7 piece set that's hard to beat. It consists of:
1-Chuck type handle,
2-Sizes philips screwdrivers,
2-Sizes blade screwdrivers,
1-6 mm nut spintight,
1-8 mm nut spintight.
Hobbyists and servicemen's kit presented in a handsome vinyl case. Very useful.

Cat. T-4330 .. .. $3.25

COMBINATION TOOL SET

$2

BABY DRIVER SET

A five piece set consisting of:
1 Precision jewellers screwdriver,
1 Baby type philips screwdriver,
1 Baby blade screwdriver,
1 5/32 nut spintight,
1 ¼ nut spintight.
A handy serviceman's kit presented in a handsome vinyl case. Great Value.

5 PIECES – EACH ONE USEFUL

Cat. T-4340 .. .. $2.00

SCREWDRIVERS

Our range of screwdrivers have been selected to cover a wide range of applications, from the finest jewellers type to automotive use. They are made from quality tempered and hardened tool steel, and finished in nickel plate. The handles are amber coloured, unbreakable, flameproof, shockproof high impact plastic. When ordering it is necessary to state series No., Type (where applicable) blade length (L) and Cat. e.g.45 Phillips 30 mm Cat. T-4020.

CODE L = Blade length, D = Blade width
H = Handle length x diameter

45 SERIES MINI

BUY TWO IN CASE YOU LOSE ONE

This really is a mini screwdriver ideal for P.U. cartridge screws, jewellers, etc.
L – 30 mm, D – 1.6 mm, H – 25 mm x 7 mm

Flat Blade Cat. T-4010 .. .. 30c
Philips Cat. T-4020 .. .. 30c

41 SERIES STUBBY

Great for confined spaces, easy grip handle.
L – 45 mm, D – 6.3 mm, H – 45 mm x 30 mm

Flat Blade Cat. T-4060 .. .. 70c
Philips Cat. T-4065 .. .. 80c

61 SERIES BABY

VERY USEFUL SIZE

This range is ideal for light electronic work.
D – 2.6 mm, H – 49 mm x 11 mm.

50mm L Cat. T-4070 .. .. 35c
100 mm L Cat. T-4075 .. .. 40c
200 mm L Cat. T-4080 .. .. 50c

71 SERIES POPULAR

VOTED MOST USED SIZE OF THE DECADE

This medium size type is excellent for general purpose use.
D – 4.5 mm, H – 73 mm x 16 mm.

75mm L Cat. T-4085 .. .. 40c
150 mm L Cat. T-4090 .. .. 55c

81 SERIES HEAVY

FOR THE TRADESMAN

This heavy duty range is ideal for use in automotive, machine shop, etc.
L – 75 mm, D – 5.5 mm, H – 90 mm x 19 mm.
Cat. T-4095 .. .. 60c
L – 125 mm, D – 6 mm, H – 90 mm x 25 mm.
Cat. T-4100 .. .. 80c

82 SERIES PHILIPS

CONTINUOUSLY USED

A range that covers all popular philips screws.
L – 75 mm, D – 3 mm, H – 54 mm x 12 mm
Cat. T-4030 .. .. 35c
L – 100 mm, D – 4 mm, H – 75 mm x 15 mm
Cat. T-4040 .. .. 60c
L – 125 mm, D – 5 mm, H – 85 mm x 18 mm
Cat. T-4050 .. .. 70c

ALLEN KEY SET

95¢

METRIC IS HERE TO STAY – SO ARE ALLEN SCREWS

7 gunmetal finish Allen Keys in a plastic wallet. Sizes 1.4 mm, 1.5 mm, 2 mm, 2.4 mm, 2.5 mm, 3 mm, 4 mm. Ideal for servicemen working on Japanese and European equipment e.g. radios, tape players, typewriters, sewing machines and office machines, etc.

Cat. T-5080 .. .. 95c

SCREWDRIVER SETS

6PC JEWELLER'S SETS $1.50

These screwdrivers are chrome plated and presented in a handy plastic pouch. Free turning hex. knob on top gives exceptional operator comfort. Small size is invaluable for jewellers and for working on today's miniature electronic equipment.

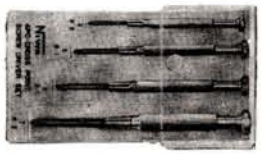
Cat. T-4310 .. .. $1.50

6 PC PRECISION SET

These are beautifully made screwdrivers, chrome plated body with free running knob on top. The blades are finest quality nickel chrome molybdenum steel precision ground. They are presented in a handy transparent moulded case. Sizes range from 0.8 mm to 3.8 mm. This is a quality set at an excellent price.

Cat. T-4350 .. .. $2.50

PRECISION PHILIPS 4PC



This set has the same features and quality of the T-4350. They fit precisely into the philips screws, without any slop. Ideal for the quality equipment on the market today using philips dress screws on front panels. 4 sizes No. 0, No. 1, No. 1 (large), No. 2. Once again excellent value.

Cat. T-4355 .. .. $2.50

ALL OUR TOOLS ARE SATISFACTION GUARANTEED

ALIGNMENT TOOLS

FIBRE ALIGNER

This big tough fibre aligner is 175 mm long with one end 5 mm open blade. The other end brass recessed, good for the hardened stiff cores.

Cat. T-4550 .. .. $2.00

TV ALIGNER KIT

A versatile 4 general purpose tools to cover all shapes for different cores. Made from tough plastic.

Cat. T-4540 .. .. $2.00

SCREWDRIVERS

FOR THE TV TECHNICIAN AND HANDYMAN

An all plastic screwdriver with spring steel tip, suitable for trimmers and mini IF's.

100 mm Cat. T-4510 .. .. 70c
200 mm Cat. T-4520 .. .. 85c

DUPLEX ALIGNER

All purpose T.V. aligner for trimmers, IFS, etc. One end has a projected tip, the other recessed. 200 mm long.

Cat. T-4530 .. .. $1.20

DRILL SETS

MINIDRILL PC DRILL

This drill is imported exclusively by us and brought to you at our special low price. Hand-held or optional stand, runs off 4 Pencells or external 6V 600ma supply. 2500 R.P.M. holds drills from .0236" to .059". Because it is free from trailing cords, it's so handy to use on the bench or any remote position. Ideal for P.C. work, jewellery, model makers, servicemen and hobbyists.

Cat. T-4760 .. .. **$19.50**

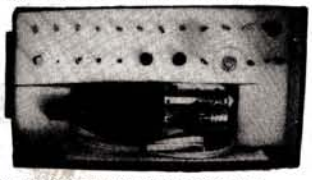
Vertical drill stand to suit with inbuilt return spring.

Cat. T-4764 . .. . **$8.90**

RELIANT HANDRILL TOOL KIT

A quality English made 12 volt D.C. operated mini handrill. These are high speed, powerful and reliable. Included in the 20 piece tool kit are 3 sizes: collets up to 1.3mm capacity, drills brushes, polishing buffs, burring tools, grinding tools, milling tools. A very versatile tool suitable for P.C. Board work, jewellery, lapidarists, engravers, model makers, hobbyists, arts and crafts.

Cat. T-4740 .. .. **$29.50**



TITAN SUPER HANDRILL TOOL KIT

As above with all the same features and tools but the power unit is a much heavier duty unit for professional use.

Cat. T-4730 .. .. **$37.50**

DRILLS

FANTASTIC VALUE

MINIATURE H.S. TWIST DRILLS

Suitable for P.C. Board work.

No. 60 (.04") **Cat. T-4820** **50c**
No. 65 (.033") **Cat. T-4825** **60c**

13 PC DRILL SET

13 sizes 1/16" to ¼" quality chrome vanadium twist drills suitable for metal, wood, plastics, etc. Presented in an attractive plastic case.

Cat. T-4800 .. .. **$2.75**

VIBROSCOPE

Etches into any metal, ferrous or non-ferrous, annealed, dull or polished. Operates on 2.5 to 6.3V AC or DC. Scope transformer ideal power source. If you can use a pencil you can handle a Vibroscope, no skill required. Instructions included.

Cat. T-1710 .. .. **$15.50**

STEEL RULE

ESSENTIAL FOR BENCH OR TOOL BOX

300 mm/12" hardened spring steel with deep etched black graduations. Graduated in both metric and inch measurements, they are non-rusting, stainless. Complete with plastic slip envelope.

Cat. T-5145 .. .. **$2.35**

CHASSIS TOOLS

HOLE PUNCH SET

NO MORE SLAVING OVER HOLES

Ideal for chassis bashers, in fact a necessary tool combination for anyone needing large holes cut through metal. It's easy to use, no filing needed, cut a clean hole without distortion. The complete set is presented in a zippered vinyl pouch and includes a 12 mm tapered reamer, tommy bar, 5 size punches 16 mm, 18 mm, 20 mm, 25 mm, 30 mm. Individual chassis punches bought separately would cost you 2 to 3 times our price. Handles to 22g steel; 16g alumin.

Cat. T-4900 .. .. **$10.50**

NIBBLING TOOL

SHEET CUTTER'S DELIGHT

This unit can cut any shape opening in sheet steel to 0.6 mm thick or light alloy to 1.5 mm, ideal for plastics too. Easy to use, gives clean cut without any distortion. Follows curved or straight lines with ease. This unit is usually $9.50. SAVE $1.00, a real bargain, add it to your tool range today.

Cat. T-4940 .. .. **$8.50**

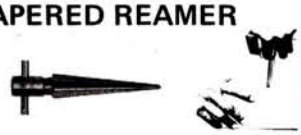
ADJ. HOLE CUTTER

U.S.A. HIGH QUALITY

Fully adjustable to cut from 23 mm (7/8") to 101.5 mm (4"), locked by an allen key for positive hold. Instructions give turning speeds for aluminium plastic, copper, wood and steel. Comes complete with allen key and centre drill. Don't confuse this one with cheap nasty imitations on the market that self destruct after the first cut.

Cat. T-4870 .. .. **$4.90**

TAPERED REAMER



CHASSIS BASHER'S SPECIAL

An ideal tool for enlarging holes in thin metal, plastics, wood, etc. Great for chassis bashers, hobbyists, servicemen. Made from the highest quality heat treated steel, comes complete with tommy bar. Tapers from 4 mm to 22 mm.

Cat. T-4920 .. .. **$3.25**

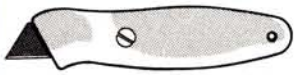
NEEDLE FILE SET

PERFECT FOR MAKING THINGS FIT

This handy set has 5 different section files 185 mm in length. Round, square, halfmoon, triangular, rectangular.

Cat. T-4960 .. .. **$3.50**

TRIMMING KNIFE



RAZOR BLADES ARE DANGEROUS — USE THIS.

A comfortable hand knife exactly the same as much more expensive units on the market. We chose this one because we can present it to you at a cheaper price but yet retain the quality of its expensive counterparts. Comes complete with 5 surgically sharp carbon steel blades for 1001 uses around the home and workshop.

Cat. T-5220 .. .. **$1.50**

UNIMAT PRECISION LATHE AND MINIATURE MACHINE SHOP

We present this specially packaged kit to you complete with 240V, 90 Watt motor, 3 jaw self centering chuck, faceplate, 3 jaw 6 mm drill chuck, assortment of 6 lathe tool kits and comprehensive instruction book.

By purchasing this basic kit, you will have started off with a versatile exciting, engineering workpiece.

We highly recommend this precision machine for the serious hobbyist, model maker, constructor, laboratory, service departments, etc. Join over 85,000 other owners like the Hughes Aircraft Corp., General Motors, Boeing Aircraft Corp. and be proud to have this unit in your workshop.

Cat. T-6010 .. .. **$315.00**

Now you can do dozens of different machining jobs that normally require a shop full of costly equipment. With Unimat you have a lathe, vertical or horizontal drill press, tool grinder, milling machine, polisher (with options extra). Exclusive features of the Unimat include rotating, detachable headstock, 11 speed spindle from 365 to 6000 R.P.M. ball bearing precision headstock spindle to give tolerance within .0005" when turning between centres. Here are a few specs.

Horizontal: Swing over slides 40 mm
Distance between centres 175 mm (with optional vertical column)

Vertical: Spindle nose to cross slide 160mm
Drill to centre of circle 155 mm

CONVERSION KIT

To give your Unimat even greater versatility we offer you this kit of accessories comprising :— 3 GRINDING WHEELS * GRINDING WHEEL GUARD * VERTICAL COLUMN AND ACCESS FOR DRILLING AND MILLING * SET OF 8 MILLING AND DRILLING TOOLS

Cat. T-6011 .. .. **$112.00**

HOBBY CENTRE KIT

A remarkable versatile workpiece containing over 39 assorted precision pieces for fine work. What will it do? BENCH GRINDER — HAND GRINDER — SANDER — POLISHER.

Comes complete with a precise flexible hand tool for freehand use of the multiple number of tool bits. Adjustable speed control from 1000 rpm to 25,000 rpm gives finite control for every job. With the 40 page illustrated HOW TO DO IT MANUAL this machine has to be seen to be believed. A real quality product any serious hobbyist or model maker would be proud to own.

Cat. T-6020 .. .. **$125.00**

EVERYTHING THE HOBBYIST OR MODEL MAKER NEEDS

PIN VICE

THE MOST USEFUL TOOL IN YOUR BOX

An incredibly handy tool for machinists, toolmakers, servicemen, jewellers, hobbyists and tradesmen. Holds drills, small taps, rotary files, burrs, rotary grinding tools, countersinks, etc. It's great for P.C. Board holes, etc. Comes complete with 2 Hardened steel chucks to hold up to 2.5mm shaft, fluted finger grip.

Cat. T-5110 .. .. **$4.25**

DELUXE PIN VICE

COMFORTABLE AS WELL AS USEFUL

This tool is as above but has a knob on the end for greater user comfort and pressure control. It comes with 2 double ended hardened steel chucks to hold up to 3 mm shaft. Chrome finish.

Cat. T-5115 .. .. **$4.75**

VACUUM BASE VICE

Mounts on any polished surface like Laminex, Formica, glass, smooth metal surfaces. Simply push down on mounting surface and turn attaching handle.

No bolts, screws or glue, no damage. 2½" jaw width, 2" opening. Comes complete with snap or protective rubber jaws. Steel jaws have provision for holding round mandrels such as pot, shafts, etc. Ideal for hobbyists and housewives. Work on your kitchen table.

Cat. T-5106 .. **$19.95**

40 P.C. SOCKET SET

A versatile tool set with ¼" and 3/8" combination drive. Quality drop forged steel, triple chrome plated. Parts include:-
8" reversible ratchet handle — 13/16 spark plug socket — nut driver adaptor — 9 x ¼" drive socket inch size 3/16" to ½" — 9 x ¼" drive sockets metric size 4.5mm to 12mm — 7 x 3/8" drive sockets inch size 3/8" to ¾" — 9 x 3/8" drives sockets metric size 9mm to 19mm.

Cat. T-4670 .. .. **$16.50**

STAPLES AND RIVETS

STAPLE GUN KIT

A heavy duty pressed steel enamel and nickle plate finish. Shaped for ease of handling, takes all lengths of staples. Uses include wiring, leatherwork, screening, display work, wall hangings, sheeting. The kit contains gun, wire attachment for positioning and holding wire, screen attachment, staple lifter and 2 packs of different size staples. The whole lot is housed in a sturdy attractive plastic carrying case. Great Value.

Cat. T-5620 .. .. **$18.80**

STAPLES

Precision made in 1250 packs.

6.35mm (1/4") leg length **Cat. T-5630** .. **$1.25**
9.52mm (3/8") leg length **Cat. T-5635** .. **$1.40**
12.70mm (1/2") leg length **Cat. T-5640** . **$1.90**

5/8" HAND STAPLER

A third hand when using insulated staples. Holds and directs posion of staple in hard to get corners etc. A couple of taps with hammer and it's in, no fuss, no frustration.

Cat. T-5615 .. .. **$3.50**

INSULATED STAPLES

pack of 100 5/8" insulated staples

Cat. H-1730 .. .. **75c**

POP RIVET GUN

EASY TO USE — NO FATIGUE DESIGN

This is a rugged cast steel gun with enamel finish and comfortable soft plastic handle grips. Very versatile unit that comes complete with 4 hardened heads to accept all sizes of rivets. A truly quality tool.

Cat. T-5665 .. .. **$15.80**

POP RIVETS 100 packs

Short 3mm (1/8") Diameter (suit 1/8" hole)
3mm (1/8") Grip Length

Cat. T-5670 .. .. **$2.10**

Medium 3mm (1/8") Diameter
6.5mm (¼") Grip Length

Cat. T-5680 .. .. **$2.30**

SOLDERING IRONS

SOLDERING HINTS

Different jobs require different types and sizes of soldering irons. For hobbyists and general purpose use where soldering is not carried out everyday, we recommend a single heat mains operated iron from 20 to 50 watts. For the service industry, the instant heating type of iron is more useful. For the more sensitive, solid state P.C. board work, a temperature controlled mains operated type is necessary. Production lines and research fields used low voltage constant heat irons and also temperature controlled irons with heat control. Portable battery operated irons are now available for people working in remote areas not able to get to a power source or where a trailing lead becomes a burden. When working around a car a 12V iron can be used.

HOBBY & GENERAL MAINS OPERATED IRONS

DICK SMITH - WELLER SP-25 ONLY $11.50

COMPACT — LIGHTWEIGHT

Handy hobbyist iron with stainless steel barrel, very compact and light weight. Runs directly off 240V mains. Supplied in bubble pack complete with iron plated cone tip as used in more expensive irons.

Tips to suit SP25D	Cat. T-1030	$11.50
MTI cone tip	Cat. T-1220	$1.00
MT4 spade tip	Cat. T-1230	$1.00

GUN KIT

$20.50 VALUE

Ideal for hobbyists, model makers, radio and T.V., Hi-Fi, home repairs and electrical work. This is a self contained, low voltage iron with pistol grip and on-off trigger. The tip heats up in seconds so you don't have the iron on all the time to burn yourself or the bench. A lamp is built into the head to illuminate those dark spots. The kit comes packed in a polystyrene case with coloured sleeve, contains solder gun, one normal tip and one plastics smoothing tip, tip wrench, instruction book and soldering aid tool. This is a good handy economical unit.

Cat. T-1040 .. $20.50

Spare tip to suit
Cat. T-1042 .. 65c

S30 ADCOLA

This is a reliable iron that can be used for general service or small production areas. Makes a good hobbyist iron too. Features a high impact orange plastic handle and comes complete with Triclad 3 mm long. life tip. Cat. T-1820 .. $11.0C

T30220 Tip to Suit Cat. T-1854 .. $1.33

S50 ADCOLA

As above but with 5 mm Triclad tip.
Cat. T-1825 .. $12.04

T50225 Tip to Suit Cat. T-1856 .. $1.85

LOW VOLTAGE IRONS — FANTASTIC

12V IRON

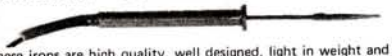
GREAT VALUE 15 WATT IRON

This little beaut operates from 12V AC or DC supply. You can use it in the car or boat, or with a 12V 1.5A transformer at home or in the workshop. A good general purpose iron for electric repairs. Cat. T-1910 .. $4.50

Tip to suit Cat. T-1915 .. 60c

MICO 10 WATT

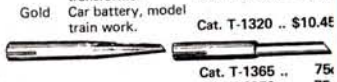
HIGH QUALITY — LIGHTWEIGHT A DELIGHT TO USE



These irons are high quality, well designed, light in weight and well balanced. Next to no fatigue, ideal for production work. They feature a very efficient element to removable tip system — heat is directed to the tip and not to the handle as other irons. 3 Voltage ratings available.

Type	Voltage	Colour		
4/10	4	Red	for use with Scope transformer	Cat. T-1300 .. $10.45
6/10	6	Black	use tapped transformer	Cat. T-1310 .. $10.45
12/10	12	Gold	Car battery, model train work.	Cat. T-1320 .. $10.45

Tips to Suit



Type A Taper	Cat. T-1365 ..	75c
Type B Chisel	Cat. T-1370 ..	75c

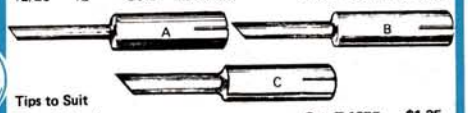
Elements to Suit

4V Red	Cat. T-1390 ..	$4.10
6V Black	Cat. T-1395 ..	$4.10
12V Gold	Cat. T-1400 ..	$4.10

MICO 20 WATT

All the features of the 10 Watt unit but greater output for heavier work.

Type	Voltage	Colour		
6/20	6	Black	use tapped T-1460 transformer	Cat. T-1340 .. $11.55
12/20	12	Gold	Auto. use	Cat. T-1350 .. $11.55



Tips to Suit

Type A Small	Cat. T-1375 ..	$1.35
Type B Med.	Cat. T-1380 ..	$1.35
Type C Large	Cat. T-1385 ..	$1.35

Elements to Suit

6V Black	Cat. T-1420 ..	$4.10
12V Gold	Cat. T-1430 ..	$4.10

Flexible lead to suit Mico soldering irons
Cat. T-1440 .. $1.92

MICO TRANSFORMERS

TS720B

This is a variable voltage type giving outputs of 5, 6 or 7 volts up to 20 watts, incorporating a tubular iron rack, carrying handle and indicator light. It is designed for the 6/10 or 6/20 irons. A 2-pin voltage selector plug is included.

Cat. T-1460 .. $27.50

SCOPE SUPERSPEED

INSTANT HEAT FINGER TIP CONTROL

The press of a thumb operated ring on the handle, within 6 seconds you have instant soldering ability. This proven scope iron system has been in service for over 20 years, it's based on a small efficient replaceable carbon element. Because you have control at your fingertips, this iron can deliver exactly the amount of heat you want. It will do the job of other irons up to 150 Watts. Operates from safe 3.3 volts AC or DC or with Scope's own special transformer. This iron features a stainless steel non-corrosive barrel. Ideal service iron. Comes with spare tips and elements.

Cat. T-1605 .. $15.50

SCOPE SPARES

Copper Tips (Standard)	Cat. T-1610	45c
Copper Tips (Instrument)	Cat. T-1612	45c
Stainless Barrel	Cat. T-1616	$4.75
Elements (carbon)	Cat. T-1618	45c
Bead Retaining Nut	Cat. T-1620	23c
Bead Ceramic	Cat. T-1622	12c
Push Rod Assembly	Cat. T-1624	$3.64
Return Spring	Cat. T-1626	81c
Flex Lead	Cat. T-1628	$4.22
Bakelite Lock Nut	Cat. T-1630	68c
Brass Nut	Cat. T-1632	$1.02
Handle Complete	Cat. T-1634	$8.00
Switch Ring	Cat. T-1636	$1.31

MINISCOPE IRON

This features all of the advantages of the scope system but is small in size with fingertip control. Ideal for service on P.C. boards and similar small jobs. Comes complete with spare tips and elements.

Cat. T-1660 .. $16.75

MINISCOPE SPARES

Copper Tips	Cat. T-1662	50c
Barrel Stainless	Cat. T-1664	$4.65
Elements	Cat. T-1666	45c
Push Rod Assy.	Cat. T-1668	$4.35
Insulating Bush	Cat. T-1670	34c
Switch Return Spring	Cat. T-1672	45c
Contact Lug	Cat. T-1674	80c
Switch Lever	Cat. T-1676	$2.20
Flex Lead	Cat. T-1678	$5.75
Handle (Unslotted half)	Cat. T-1680	$2.20
Handle Centre Piece (slotted)	Cat. T-1682	70c
Handle Brass Sleeve	Cat. T-1684	$1.85
Ceramic Bead	Cat. T-1686	22c
Bead Retaining Nut	Cat. T-1688	16c

SCOPE TRANSFORMER

This is the recommended transformer for the Scope irons with stand, it may be mounted on or under bench.

Cat. T-1692 .. $16.50

THERMATIC IRONS

ADCOLA THERMATIC IRON

FOR PRECISION SOLDERING

These are mains operated irons using solid state temperature sensing and control in conjunction with an S.C.R. used as an electronic switch. A screw driver adjustment in the handle enables you to select the exact temperature needed. Ideal for components or solders requiring accurate temperature. Helps eliminate damage to delicate work. With constant temperature consistent joints are assured. Temperature range 200° to 400°C. Fitted with long life Armclad tip.

T30 THERMATIC IRON	Cat. T-1810	$29.00
A 30220 tips to suit	Cat. T-1850	$1.85

WELLER TCP-1

HIGH QUALITY!

$49.90

Control of temperature in this iron is by the Curie point principal The specially made tip controls a magnet switching action to maintain the temperature at the exact level. A powerful heater system delivers heat to the tip on demand whether the joint being soldered is very small or large. The temperature range is changed simply by selecting the quick change tip. The system comes complete with 48W iron (that outperforms uncontrolled irons in the 10 to 120W range). The bench transformer is an isolated low voltage 24V unit with iron guard stand and tip wiping sponge. That this is a professional unit is proven by the number of research and development laboratories that use them.

System Complete	Cat. T-1000	$49.90
TCP-1 24V Iron Only	Cat. T-1010	$26.95

Spare Tips

Double Flat 1/16"	315°C	PT-A6	Cat. T-1060	$2.20
	370°C	PT-A7	Cat. T-1064	$2.20
	430°C	PT-A8	Cat. T-1068	$2.20
Single Flat 1/8"	315°C	PT-CC6	Cat. T-1070	$2.20
	370°C	PT-CC7	Cat. T-1072	$2.20
	430°C	PT-CC8	Cat. T-1074	$2.20

SCOPE CORDLESS

NEW!

AMAZING 60W CORDLESS!

Capacity around 100 typical electrical connections. Uses the unique 6 sec. Scope iron heating system proven over 20 years, the actual barrel, tips and elements are the same design as the popular miniscope. The pistol grip handle provides comfortable natural grip. The weight of the iron is distributed evenly over this grip point to give ease of use without fatigue. Ni-Cads rechargeable using various optional adapters; 240V charger adapter, auto cigarette lighter adaptor, scope transformer adapter. Complete with an instruction sheet, spare tips and element.

Use miniscope tips and elements for replacement.

Cat. T-1590 .. $42.50

240V. A.C. charger adaptor to suit Scope Cordless
Cat. T-1592 .. $12.25

SOLDER

We stock only top quality multicore corrosion free solder.

1.25mm (18g)	250g	Cat. N-1619	$3.90
.71mm (22g)	250g	Cat. N-1623	$4.40

Special hobby packs for those who don't require the quantity of the 500 g pack. A liberal amount of top quality solder.

1.25 mm (18g)	Hobby Pack	Cat. N-1638	$1.00
.61 mm (22g)	Hobby Pack	Cat. N-1636	$1.00

 HAVE YOU SEEN THE FANTASTIC RANGE OF NEW CB BOOKS ON PAGE 36

SOLDERING AIDS

EL-1 SOLDER SUCKER

This is beautifully made, all metal construction that will stand up to the rugged treatment where plastic units fail. It comes complete with teflon tip and nozzle sweeper, and light thumb release mechanism. Easy to use. Why buy the almost identical units on the market for twice the price, save yourself money on this assured top quality unit.

OUR BEST SELLER

Cat. T-2560 .. $8.75

Spare Teflon tip to suit
Cat. T-2570 .. $1.75

SOLDAVAC

This is a quality tool manufactured in the States. It is supplied with 'How to use and clean' leaflet. In operation the joint to be desoldered is simply heated, the teflon tip of the soldervac is placed in the joint and the trigger squeezed, result, instant clean desoldered joint. It's light and comfortable to use

Cat. T-2510 .. $9.00

Spare Teflon tip to suit.
Cat. T-2665 .. $2.50

DESOLDERING BULB

VERSATILE – SUCK OR BLOW!

A simple but efficient desoldering tool, simply squeeze, apply to molten joint and release, one big suck, it's all over, one clean desoldered joint. You can blow with it too!

Cat. T-2580 .. $2.50

DICK WICK

Dick's big saving on this one.

Now commonly known as the famous "Dick Wick". A specially treated flat copper braid that is applied between the joint to be desoldered and the soldering iron. As the heat is transferred to the joint the solder becomes molten and through capillary action is virtually sucked into the braid. The result is a very efficient, clean low cost operation. Cut off the used bit, and you are ready to go again.

Cat. N-1682 .. $2.00

SOLDERING STAND

This is a 2 section stand, the top half has an inbuilt flip up stainless metal stand to hold your iron. Stops burning leads and/or the bench. The bottom half has a heatproof sponge for tip cleaning. Both halves have screw mounting holes for bench mounting or they can be screwed together to put in the tool box. Great to have around when your soldering on Madam's carpet. Diam. 65 mm.

Cat. T-2550 .. $3.25

SOLDERING AID SET

This is a handy and necessary aid pack to anyone building on P.C. boards. In assembly a hook and lead guide fork tool makes the job a lot easier. Another tool has reamer point on one end and a knife like tool the other, good for laminate land clearing. A sharp pointed scriber, self locking heatsink clip, stainless steel and bristle brush completes the set. These make life a lot easier for servicemen not only for P.C. Board repair, but great for restringing dial drives. Recommended for assembly production run benches.

Cat. T-2610 .. $3.95

SPECIAL FLUX

This fantastic flux now makes it possible to solder together previously non-fusable combinations. How many times have you tried to solder aluminium with all the gunk under the sun, but without success. Now with this scientific laboratory breakthrough you can solder aluminium to copper, aluminium to aluminium, aluminium to steel, steel to copper, in fact any metal to any metal. No special preparation needed. Use conventional solder, applied with quick heat, regular soldering iron or torch.
1 oz (28 gm) tube.

Cat. N-1666 .. $2.50

C–R PULLER

KEEP YOUR COOL – SAVE A FORTUNE

SAVE!

This is virtually a third hand when removing components from P.C. Boards. It is spring loaded to automatically remove the component as the solder melts. Ideal for servicemen.

Cat. T-2600 .. $2.25

HEATSINK CLIP SET $1·20

Spring loaded, neat little pliers grip heat sensitive components and leads. High thermal conductivity aluminium construction. 2 types, one straight and one angled, 75 mm long.

Cat. T-2620 .. $1.20

HEATSINK CLIP

Protects sensitive components from the heat damage when being soldered. This clip is equipped with special alloy thermal shunt tips for rapid heat removal from gripped work. They are spring loaded, self holding.

Cat. T-2630 .. $2.75

SERVICING AIDS

N-1051

N-1040

N-1047

N-1060

N-1011

N-1045

N-1070

N-1063

N-1056

N-1032

N-1031

N-1200

ADHESIVES

N-1210

N-1220

N-1365

FREON SPRAY

This is a cleaner, degreaser, moisture removing spray, it is non-toxic, non-explosive, non-flammable. Completely safe to use on all surfaces including rubbers and plastics. It leaves no residue, suitable for all electronic, electrical, computer and tape recorder heads and mechanisms, clocks and watches, cameras, jewellery, in fact any cleaning jobs – even the most delicate equipment. Complete with long reach nozzle. 250g Pressure pack can.

Cat. N-1051 .. $2.75

ELECTROLUBE PRECLENE

A highly efficient, high pressure solvent, highly recommended for cleaning tuners, switches, plugs and sockets, commutators, potentiometers, relays, etc. Non-corrosive, non-flammable, low toxicity. Complete with long tube. 340 g (12 oz).
Pressure pack can.

Cat. N-1040 .. $3.40

CRC-226

This is a moisture removing, cleaning pressure pack spray. Not only does it clean, but it leaves a film of protecting silicone that does not dry out. Ideal for pots, switches and contacts. Good for loosening stubborn nuts and bolts. Every boat and car owner should have a can for protecting areas from salt and moisture. One spray on the ignition system relieves you from the frustrations of wet weather starting, stalling and stopping problems. 454g (1 lb.)
Pressure pack can.

Cat. N-1060 .. $4.75

ELECTROLUBE 2X LUBE PEN

This is a state of the art electro-mechanical lubricant. It is packaged in a pen form complete with pocket clip. The pack features a unique retractable tube system to reach into the most inaccessible areas. A quality non-drying lubricant for use with electronic and electrical gear, automotive, office equipment, domestic equipment, telephone systems, etc. Ideal for servicemen too.

Cat. N-1047 .. $1.98

ACRYLIC CLEAR SPRAY

Pressure pack of clear acrylic plastic spray. This is a fine colourless spray ideal for tough protection of front panels, etched, screen print or Letraset lettering, etc.
Also gives weatherproofing or moisture proofing to components, P.C. Boards even outside T.V. aerial terminations. 125g
Pressure pack can.

Cat. N-1011 .. $2.25

CIRCUIT LACQUER

This is a specially formulated spray for protection of P.C. Boards. Ideal tropic proofing agent for those tough areas. This is a solder thru lacquer so boards previously sprayed with PCL-2 can be soldered in service, a quality a lot of similar types of sprays don't have. 397g (14 oz.)
Pressure pack can.

Cat. N-1045 .. $4.60

MATT BLACK SPRAY PAINT

This is a quick drying matt finish spray. Suitable for giving your project that professional finish. Ideal for spraying heatsinks to increase thermal efficiency. Pressure pack can.

Cat. N-1070 .. $2.20

COLD GALVANIZE

This is a zinc enriched hard coating that will stop rust and rust creapage on all metals. It withstands high temperatures, protects up to 3 years. Equal to hot dip galvanizing. Many protective uses including boat trailers, car bodies, machinery, air conditioners, welded areas, guttering, fencing, outdoor furniture, watertanks, etc.
CAUTION: To avoid nozzle clogging, read instructions on can carefully. 453g (16 oz.)

Cat. N-1063 .. $5.80

P.V.C. TAPE ROLL

Top quality P.V.C. tape, 20 m L x 19.05 mm W x .1905 mm thick 101 uses.

	1-9	10 up
Cat. N-1365 ..	59c	45c

SPRAY FREEZER

Instantly freeze components down to –50°C. Ideal for servicing electrical and electronic equipment, sorts out that stubborn intermittent problem. Shrink shafts, bushes, pins, etc. Cools components while soldering. Complete with long reach tube.
350g Pressure pack can.

Cat. N-1056 .. $3.00

SPRAY TOOL

This is a miniature spray gun, air brush, powered by an inert gas. Controlled by a simple pushbutton action, ideal for spraying projects, cases, instruments and models. Because the spray fan is fine, a professional finish is given. Can be used with lacquers, enamels, P.V.C., etc. in fact, any liquid capable of being sprayed. Complete system including propellant.

Cat. N-1031 .. less propellant .. $4.75
350g Propellant Can. Cat. N-1032 .. $2.75

THERMOPATH 167

A silicone based heatsink joint compound. Made specially for such uses as semi-conductor mounting, improves the thermal resistance of the joint up to 40%. Can be used where any thermal conducting medium of this type is used. The compound is stable and maintains its thermal properties over a very wide temperature range.
CAUTION: Contains Beryllium Oxide – Keep off skin, long exposure may result in absorption into the body. 12g vial.

Cat. N-1200 .. $1.20

ARALDITE

A 2 part epoxy resin of proven ability. Remarkable bond strength, heatproof and waterproof, a must in every workshop. 30 ml (1 oz) Pack.

Cat. N-1210 .. $2.00

SUPERGLUE

THE WONDER OF THE SPACE AGE. SUPER BOND STRENGTH
No clamping required, no mixing, no mess. Sets in seconds. A must around the house, workshop, car and tool box.

Cat. N-1220 .. $1.99

COMMUNICATION EQUIPMENT

1W 3CH HAND HELD MIDLAND

Circuitry:	12 transistors, 3 diodes, 1 thermistor
Operation:	AM, hand held or mobile/base
Channels:	3, one fitted with 27.240MHz
Power Source:	12V (8 p'lite, Nicad pack, external supply)
Size:	24 x 6.5 x 5.5 cm
Weight:	1kg approx.
Transmitter	
Modulation:	High level
Power input:	1 watt
Receiver	
System:	Superheterodyne with tuned RF
Sensitivity:	1.4uV for 10dB (S+N)/N
Accessories included:	Swivel carrying strap, instructions

* NEW FEATURE – EXTERNAL AERIAL SOCKET

THE CHEAPEST HAND HELD 3 CHANNEL TRANSCEIVER WITH ALL THESE FEATURES!

This mighty Midland is ideal for the weekend boatmen who really don't need the high power units. They need a safety transceiver which can be relied on to get them out of trouble if the worst happens! Like one of our customers who ran into trouble off the south coast of NSW. His expensive boat radio wasn't worth a cracker: his life was saved with his 1 watt Midland. We have a number of customers with similar stories. **How much is your life worth?**
Then there are dozens of non-boating uses too: on the land, for instance. You are allowed a 5W base station and 1W mobiles. What better units than this Midland? Or sporting bodies. Imagine how much easier your next function would be to control if you had simple, reliable communication? Or hikers, bushwalkers, etc.
Your safety is ensured if you keep contact with the outside world. And the Midland 1W easily fits into your pack.
There are dozens of uses which you probably never thought of: or uses which you thought may be un-licensable. Ask us – we'll be glad to advise you, and put you in touch with the relevant authority.
Cat. D-1102 .. .. $49.50

DICKS VALUE PLUS SPECIAL

* MAX. LEGAL POWER
* P&T DEPT APPROVED
* FRONT PANEL CONTROLS
* EXT. (BASE/MOB.) SOCKETS

ONLY UNIT ASSEMBLED WITH ALL THESE FEATURES AT THIS PRICE

$49.50

5W 3CH MIDLAND 13-801

Circuitry:	12 transistors, 9 diodes & 1 IC
Operation:	AM, mobile or marine mobile
Channels:	3, one fitted with 27.88MHz
Power Source:	12V DC (13.8V EIA)
Size:	10 x 16.5 x 5.2 cm
Weight:	795 grams
Transmitter	
Modulation:	High level
Power Input:	5 watts
Receiver:	
System:	Superheterodyne with TRF, AGC & ANL
Sensitivity:	1.5uV for 10dB (S+N)/N
Selectivity:	5kHz at 6dB
Spurious Rej:	35dB
Audio Output:	3 watts
Accessories Included:	Microphone, mounting brackets, inst. book

Our budget marine unit. It's easy to use and reliable. And it's full legal power – 5 watts input. This is intended for the small yacht or larger sport-fishing boat which ventures 'outside' but rarely out of sight of the coast. 3 channels are fitted on this unit, 1 channel supplied with the emergency channel 27.88MHz. The other two channels are left 'open' for you to fit with your club frequencies, etc. (We have crystals available, and installation of crystals is a two-minute, anyone-can-do-it job).
Driving one of these things is a dream. You turn it on, select your channel and press the button on the microphone. You're on the air! A lamp glows to tell you you're transmitting. There're only two other controls, a 'squelch' which cuts the receiver off to all but the strong signals (depending on where you set the control, you can have the squelch fully off, fully on or anywhere in between). In this way, you aren't listening to noise all the time. The other control is a 'PA' switch which allows the transceiver to double as a public address amplifier with an optional horn speaker. Very handy for races, regattas, etc.
Cat. D-1400 .. .. $49.50

* MAX. LEGAL POWER
* P&T DEPT APPROVED
* IDEAL SAFETY RIG
* DOUBLES AS PA AMP

$49.50

5W 6CH MIDLAND 13-854

Circuitry:	13 transistors, 9 diodes, 1 IC
Operation:	AM, mobile or marine mobile
Channels:	6, one fitted with 27.880MHz
Power source:	12V DC (13.8V EIA)
Size:	12 x 16.3 x 3.5 cm
Weight:	1kg
Transmitter	
Modulation:	High level
Power input:	5W
Receiver:	
System:	Superheterodyne with TRF, AGC & ANL
Sensitivity:	1.5uV for 10dB (S+N)/N
Selectivity:	6kHz at 6dB
Spurious rej:	More than 50dB
Audio output:	3 watts
Accessories included:	Microphone, mounting bracket & inst. book

Another full legal power unit – the difference is the extra channels for more versatility. 6 channels lets you put in all the frequencies you're likely to find used around the Australian coast, and can also take other channels (like the CB emergency channel, or the surf club channel, etc etc) Remember there are four channels allocated for club use, so if you are in a couple of clubs you may well find that you need more than three channels the smaller unit offers.
Again, this unit doubles as a 'PA' amplifier with our optional horn speaker.
The unit is small enough to be mounted 'in dash' for extra security. Because your boat is left at it's mooring or marina for long periods un-attended, boat radios are a pretty hot item for thieves. In-dash mounting goes a long way to prevent this, as the thief often prefers to go on to the next boat where the pickings are a little easier!
Comes with all instructions, mounting bracket and microphone. Extremely easy to hook up and install – anyone can do it!
Cat D-1406 .. .. $79.50.

* MAX. LEGAL POWER
* P&T DEPT APPROVED
* HI PERFORMANCE
* IDEAL OFFSHORE RIG

$79.50

5W 3CH HAND HELD MIDLAND 13-764

Circuitry:	14 transistors, 9 diodes, 2 zeners & 1 LED
Operation:	AM, hand held or mobile/base
Channels:	6, one fitted with 27.88MHz
Power Source:	12V DC (8 p'lite, Nicad pack, ext supply)
Size:	22.2 x 8.2 x 5.4 cm
Weight:	1.36kg (plus case & batteries)
Transmitter	
Modulation:	High level
Power Input:	5W (or 2W)
Receiver:	
System:	Superheterodyne with TRF, AGC
Sensitivity:	1.0uV for 10dB (S+N)/N
Accessories included:	Case, shoulder strap, instruction book.

Here it is: all the versatility of a hand held with all the features of a fixed unit. Why? This new Midland 5 watt hand held can also be used as a fixed unit. It has jacks for external power, external aerial, etc – so you can take it with you or leave it in the boat. It also has a couple of other features that the rest don't have: a hi/lo power switch, for instance (not only saves your batteries, but stops you overloading someone else when you are too far to shout but still too close for full power) and a battery check light – so you know you're getting out ok! Other controls are volume, squelch and channel selector. Heavy duty unit, designed for years of reliable service. Incidentally, all these units will also work with any other 27MHz crystals in them (eg, 23 channel 'CB' crystals, bush fire brigade channels, surf life saving channels, search and rescue channels, etc.) So any of these organisations can use the same rigs – it's just a matter of changing the crystals to suit the frequency required.
Cat. D-1115 .. .. $79.50

DICKS VALUE PLUS SPECIAL

* MAX. LEGAL POWER
* P&T DEPT APPROVED
* HI/LO POWER SWITCH
* HAND HELD, MOB. OR BASE

$79.50

CRYSTALS

We have a tremendous range of 27MHz crystals. For each channel you get two crystals: the transmit on the nominated frequency and the receive 455kHz below. All crystals except those noted below have a common price.

27.240MHz	Cat D-6024
27.880MHz	Cat D-6088
27.890MHz	Cat D-6089
27.900MHz	Cat D-6090
27.910MHz	Cat D-6091

$7.50 pair

'CB' Channels

27.015MHz (ch 5)	Cat D-6001
27.025MHz (ch 6)	Cat D-6002
27.035MHz (ch 7)	Cat D-6003
27.065MHz (ch 9)	Cat D-6006
27.085MHz (ch 11)	Cat D-6008
27.105MHz (ch 12)	Cat D-6010
27.125MHz (ch 14)	Cat D-6012
27.155MHz (ch 16)	Cat D-6015
27.185MHz (ch 19)	Cat D-6018

Surf clubs, rescue organisations, bush fire brigades, etc: We can supply the crystals for your operating frequencies. Please enquire at our stores or write direct to our head office.

WHITE KNIGHT 27MHz HELICAL

* Weather Protected
* Full 1/4 Wavelength
* Flexible but Strong
* Ideal for Marine or Mobile
* Easy Mounting

DICKS VALUE PLUS SPECIAL

$29.00

The White Knight helical antenna has proven to be one of our most popular lines since its introduction just a few months ago. Why?
Partly because of the helical's reputation for relia- White Knight is sealed inside a plastic sheath f from the elements
Partly because of the helical's reputati- nance – the White Knight is a full 1/4 wav- But mostly because of value. I- d value for money. You could pay dollars mo- nd do no better!
The helical antenna is- enna for marine use – in fact, on aluminium- on't even need a ground plane. For more infor- ing an antenna to your boat, ask at any of n- y'll tell you all you want to know!
Cat. D- $29.00

NEW MODEL HELICAL NOW AVAILABLE. Has in-built SWR adjuster. Same price as old model: VALUE!

Note: Th- opposite page shows the White Knight with the old style h- supply this antenna with a universal-type base, with the bott- you don't have to cut your antenna. antenna threaded 3/8in (24TPI) to suit this, or a large variety of oth- es and mounts. The lead and PL-259 plug are also supplied.

 SEE PAGE 78 FOR THE P&T LICENCING REQUIREMENTS

MIDLAND
27 MHz Transceivers

FROM
DICK SMITH
ELECTRONICS
GROUP

Midland
1 Watt 3 Channel
Hand Held Transceiver
Cat. D-1102

Midland 13-764
5 Watt 3 Channel
Hand Held Transceiver
Cat. D-1115

SEE PRICE DETAILS ON PAGE FACING INSIDE BACK COVER.

Midland 13-801
5 Watt 3 Channel
Marine Transceiver
Cat. D-1400

Midland 13-854
5 Watt 6 Channel
Marine Transceiver
Cat. D-1406

"White Knight"
27 MHz
Helical Antenna
Cat. D-4076

NEW 18 CHANNEL

Look for this symbol: It's your guarantee of quality. All Dick Smith designed-for-Australia CB has a 90 day g'tee plus parts & service back-up.

DICK SMITH INTRODUCES HIS NEW 18 CHANNEL CB Designed for Australia

NEW 18 CHANNEL

THE BUMBLEBEE
Economy AM

ORIGINAL RELEASE PRICE: ~~$119.00~~

SPECIAL INTRODUCTORY PRICE (while 1st shipment lasts):

$99.50

There is a basic difference between the new 'Bumblebee' and all those other rigs: the Bumblebee is easier to use. Just two main controls plus channel selector — less than most transistor radios!!! That makes the 18channel Bumblebee the ideal set for all novice CBers — find out what CB's all about without spending a fortune! Yet the Bumblebee is a full power unit — with the same impressive performance as its more expensive brothers. 5watts input, high sensitivity receiver — and it's designed for Australia with the very latest phase-locked-loop intergrated circuit technology. It is fully approved by the Posts & Telecommunications department so you can obtain your license easily.
Brand new Bumblebee: Cat. D-1510.. .. ..$99.50.

NEW 18 CHANNEL

THE WASP
Deluxe AM

ORIGINAL RELEASE PRICE: ~~$169.00~~

SPECIAL INTRODUCTORY PRICE (while 1st shipment lasts):

$129.50

Here is the deluxe job: the superb AM Wasp. A real little stinger! Most CBers are prepared to pay just a little more to get worth - while features — they know that having a little control over their set makes CB'in all the more interesting and enjoyable. The Wasp has the worthwhile features. Like an RF gain control (on an AM set!) And LED digital readout. Switchable noise limiter and blanker. Plus, plus, plus.. .. .. The Wasp is the AM set for the advanced CBer — or for the CBer who knows one day he will be! Like its brother, the Wasp features the very latest in electronics — and, of course, it too is fully approved! Remember with these 18 channel sets you actually get two extra legal channels more than the 23 channel sets. Take advantage of our introductory offer now: stock cannot last long at this incredibly low price!!!
Wonderful Wasp: Cat. D-1520.. .. ..$129.50.

NEW 18 CHANNEL

THE HORNET
SSB/AM

ORIGINAL RELEASE PRICE: ~~$299.50~~

SPECIAL INTRODUCTORY PRICE (while 1st shipment lasts):

$199.50

If you're **really** into CB, you've probably longed for an SSB! Well stand back and feast your eyes on the Hornet! Did we say the Wasp had a sting. . .? The Hornet is **performance** CB from the aerial socket back! When you want that extra range, the extra performance that only SSB can give, why settle for second best for no more (in most cases, considerably less at our special introductory offer price)The Hornet features AM operation as well as SSB, so all your friends down there on AM won't miss you! It is finished in the very latest 'black is beau - iful' lines, with its brilliant LED digital readout and large illum - inated power/strength meter contrasting perfectly. A set you'll be proud to own and use (and at this price what a bargain)!
Horny Hornet: Cat. D-1720.. .. ..$199.50.

NEW 18 CHANNEL

THE SCORPION
SSB/AM Base Station

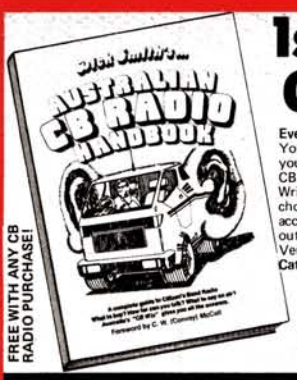
ORIGINAL RELEASE PRICE: ~~$349.50~~

SPECIAL INTRODUCTORY PRICE (while 1st shipment lasts):

$299.50

Sure you can run a mobile CB as a base station. All you need is a good power supply, probably an SWR meter, a decent speaker, connecting cords, patch cords, etc etc etc. . . If you're going to go base, why not buy a base station? One, that has all this assembled in one handsome case — a piece of furniture, in fact! This superb **Scorpion** is our top-of-the-line line. It plugs straight into the power point (but will also work from 12V if needed) and has an in-built SWR meter, extra large speaker all connected up for you and ready to go! It's brilliant! And it's a rig you'll be proud to place **anywhere** inyour home! Beautiful lines, beautiful performance on both SSB and AM and a real saving over the cost of individually bought items connected up in an unsightly mess!!!
Superb Scorpion: Cat. D-1740.. .. .. $299.50.

ALL DICK SMITH CB IS GUARANTEED 90 DAYS



FREE WITH ANY CB RADIO PURCHASE!

1st AUSTRALIAN CB HANDBOOK

Everything you wanted to know about CB but were afraid . . . You've seen all those Yank CB magazines and books that tell you all about Yank CB . . . Here is the first AUSTRALIAN CB book that tells you all about AUSTRALIAN CB! Written by Australia's CB Wizard, Dick Smith, its 128 pages are chock a block full of info, codes, jargon, data, types of rigs, accessories, how to get on air, how to get a license, how to stay out of jail . . .
Very profusely illustrated, top value!
Cat B-2325 .. .. **only $3.95**

GREAT VALUE AT $3.95

TOP LOADED CB ANTENNA

FAMOUS 27MHz WHITE KNIGHT!

This is our new antenna — and we are sure it will be as popular as its namesake! High s istrngth, fantastic performance and smart appearence make it a sure-fire winner for your car! Top loading coil and short matching stub on a long, slender white fibreglass rod fitted with a universal type thread (3/8in, 24TPI) and supplied with base and lead/plug assy, complete with instructions!
You can't go wrong!!!

Cat. D-4452.. .. .. **$29.50.**

- TOP LOADING COIL WITH STUB!
- ROBUST WEATHERPROOF UNIT!
- SMART APPEARENCE!
- UNIVERSAL SCREW BASE!
- HIGH PERFORMANCE!

GREAT VALUE AT THIS PRICE

$29.50

Southern Star
DESIGNED FOR AUSTRALIA

13.8V POWER SUPPLY: VALUE!

Don't Pay $49

$39.50
Cat M-9545

You've seen all those other 'CB' power supplies. And the prices! Half of them aren't even good enough for CB usage — mainly due to insufficient peak power rating. On modulation peaks, your transceiver puts out a lot of power — this power has to come from somewhere. If the supply you've chosen cannot cope, you don't get the power. Simple! And this supply is the full EIA standard 13.8V — not 12.6 or even 12 volts! **And it's fully approved by the electricity authority (approval no. N 1188 M 9545).** If you're going to go 'base', do it properly — without wasting a cent. The Southern Star regulated power supply from Dick Smith is all you need!
Cat M-9545 .. .. **$39.50**

HUGE 4A PEAK!

Reads Power Too!

Southern Star

SWR METER

Here it is: the SWR meter you've been waiting for. And it's worth the wait! Compact design is ideal for the CBer and amateur operator, measures both standing wave ratio (SWR) and power output. And best of all, you don't have to go hunting for a jumper lead to connect it to your rig. This meter comes equipped with it's own lead, plus the standard SO-239 socket. Finished in smart matte black with contrasting white meter, it will go with any set-up. The meter itself is extra large for easy reading, and is calibrated in both the ratio and percentage power loss for SWR measurements, plus watts (up to 10) for power output measurement. Incredible value!
Cat Q-1350 .. .. **$19.50**

$19.50
Cat Q-1350

needs no jumper leads

Swamper II CB BASE ANTENNA

ONLY FROM DICK SMITH AND DEALERS

$69.00
Cat D-4428

EXCLUSIVE! Highly efficent and attractive capacitive top hat - lowers angle of radation and means your signal gets further!

EXCLUSIVE! Commercial quality aluminium tubing. Antenna extends to over 5.4metres - wind survival rating in excess of 130km/h!

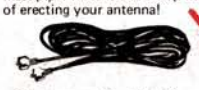
EXCLUSIVE! Unique self - locking collars for instant erection or dis - mantling. Simply slide the section up and turn the collar. That's it!

EXCLUSIVE! Full half wave ant - enna gives 3.75dB gain. No ground plane needed!

EXCLUSIVE! All components and hardware come on a single card pack with full instructions. Extra easy for assembly - nothing can disappear!

EXCLUSIVE! Base of antenna is at DC ground potential to minimise static and induced noise interference!

EXCLUSIVE! Bottom of antenna just slips over our standard 1¼in TV mast pipe. Instant and cheap method of erecting your antenna!



Comes complete with 50' co-ax cable with pre-soldered plugs, & full mounting instructions!!!!!!!

AUSTRALIA'S MOST VERSATILE CB!

TOTAL VERSATILITY - that's the great 23 channel MIDLAND portable/mobile! One, it's a portable rig, complete with shoulder strap & telescopic whip antenna; two, it's a mobile rig, which is connected to your car ant- enna and supply. It mounts just about anywhere; & is just as easily removed when you go hiking, camping, or just for security! Technically it's right up there with the big guns: 4W output, not input, power on vehicle battery, slightly less on its own batteries.
An incredibly simple and useful set!!!

Buy now — the price of this set must increase; it has been reduced by $50!

SAVE $50.00 IF YOU BUY NOW

$135.00
Cat D-1432

Circuitry: 21 transistors, 9 diodes & 1 zener.

Operation: AM, portable/ mobile.

Channels: 23, 26.965 — 27.255 MHz, PLL system.

Power source: 12V (8 x penlite, 10 x Nicad) or from external 12V (13.8V EIA) supply.

Size: 5H x 11W x 17D. In case, 8.2 x 11.7 x 20.

Weight: 1.5kg (plus batteries).

Transmitter;

Power input: Mobile 5W, Port. 4W or 2W hi/lo.

Antenna: Built-in centre loaded whip or external antenna.

Receiver;

System: Dual conversion sup - erheterodyne.

Sensitivity: 0.7uV for 10dB (S+N)/N.

Selectivity: 8kHz @ 6dB down.

Audio output: 2.8W.

Accessories included: Case with strap and shoulder pad, p-t-t speaker/mic, telescopic whip antenna, 2 mounting brackets and hardware, DC power cord and instruction manual.

CAT. D-1432.

COMMUNICATION ACCESSORIES

TVI FILTERS

TVI is caused by harmonics (multiples) of the transmitted signal finding its way into the TV set via one or more paths. Cut out these harmonics and presto! (in the majority of cases, that is!)

TVI-30 MIDGET FILTER
The same size as our popular matchbox, this filter is all the TVI protection you need in many cases. It connects into the antenna line (close to the transceiver) via ordinary PL-259 plugs. It has a low insertion loss, suits 50 ohm impedance units (99% of CBs). Cut-off frequency is 30MHz.
Cat. D-7082 .. .. $10.50

$10.50

$23.75

For really stubborn cases of TVI (and BCI) it may be necessary to bring out the 'big guns'. This Shinwa filter is recommended in such circumstances. It has proven highly effective for thousands of our customers – it should do the same for you. Much larger unit than the above – suitable for power up to 500 watts, too! Cut-off is 30MHz, insertion loss less than 1dB. Maximum attenuation is around 50dB! Really sorts out the sheep from the goats.
Cat. D-7080 .. .. $23.75

RF SIGNALISER

$47.50

Brand-new look to our popular RF Signalizer – one of our most popular imports! The Signalizer is a variable gain RF Preamplifier which inserts in your antenna lead. Gain from –25dB (which is actually a loss of +25dB!) through zero gain up to +20dB gain with a single knob. The gain side is used to lift signals out of the mud while the loss side is used to cut down strong, local signals. That's versatility! Automatically changes over when you hit the button, from receive to transmit (and vice versa . . .) Needs 12V DC @ 35mA.
Cat. D-3828 .. .. $47.50

ANTENNA SWITCHES

MEDIUM POWER, CB TYPE.
If you want to use more than one antenna on your CB, you're going to need an antenna switch (alternative: run around like a hairy goat madly undoing and re-doing connectors all over the place). This economy switch will handle up to 150 watts at 30MHz (but we have used one at 144MHz without trouble!). Unconnected inputs are grounded to avoid cross-coupling.
Cat. D-5206 .. .. $11.75

$11.75

$22.50

HIGH POWER, HIGH FREQUENCY HAM TYPE
Quality unit with very low loss, will handle 1kW at 150MHz. Again, 3 positions for various types of antennas. This unit has an attractive walnut-type finish, with mounting holes. Suits PL259 connectors.
Cat. D-5204 .. .. $22.50

ANTENNA MATCHERS AND COUPLERS

$15

FANTASTIC VALUE

$29.50

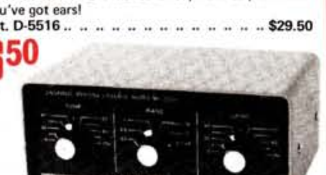
MATCHBOX
Designed to be connected in the antenna lead. By adjusting the two controls virtually all mismatch between antenna and transmitter can be eliminated. Handles 100 watts, size only 82mm x 55mm x 38mm. 50 ohm impedance, PL259 connectors.
Cat. D-5512 .. .. $15.00

27MHz ANTENNA ELIMINATOR
Don't drill another hole in the old jallopy for another antenna – fit a CB Aerial Eliminator instead. Easy to instal – just unplug your AM car radio antenna, plug it into the eliminator and plug the leads from the eliminator into the CB and the car radio. Loads the antenna properly, SWR better than 1.5:1. Will handle up to 80 watts PEP. Makes it very hard to pick that you've got ears!
Cat. D-5516 .. .. $29.50

$58.75

ANTENNA COUPLER & SWITCH 1600X-2
An in-line antenna matcher, for tuning beams, etc, for a 1:1 SWR ratio allowing operator to switch from ground plane to beam without re-tuning. Improves received signals, too. Modern case with sloping front panel. Handles 300W, 3–30MHz.
Cat. D-5510 .. ..$58.75

$166.50



ANTENNA COUPLER HC-500
The Hi Power HC-500 Coupler will tune any aerial for 1:1 SWR for perfect match to any transmitter. Solid construction, high quality components, ceramic switch, etc. A must for all stations! Specs: 3.5 – 30MHz, 500W max, 52 ohm input unbal., 10 to 600 ohms output bal or unbal.
Cat. D-5500 .. .. $166.50

DUMMY LOADS, ETC

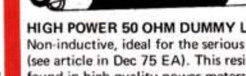
$2.75

DUMMY LOAD
5 watt maximum – for testing low power transmitters. Perfect 52 ohm match sealed inside a standard PL-259 plug. Just screw into the antenna socket on your transceiver!
Cat. D-7022.. .. .. $2.75

$3.50

DUMMY LOAD LIGHTS UP!
Same concept as previous load (built into a standard PL-259 plug) but this one contains a lamp which lights up on transmit. Shows carrier on AM, with modulation varying light intensity.
Cat. D-7024 .. .. $3.50

$12.50



$23.75

HIGH POWER 50 OHM DUMMY LOADS
Non-inductive, ideal for the serious experimenter (see article in Dec 75 EA). This resistor is normally found in high quality power meters selling for over $100. High tolerance, high power devices with virtually no inductance. Large – to get rid of all the power! Continuous ratings; intermittent would be far higher. Ideal for dummy loads, etc.
50 watt: Cat. D-7015 .. .. $12.50
100 watt: Cat D-7010 .. .. $23.75

$4.20

LIGHTNING ARRESTOR
Prevents lightning overload damaging equipment. Arrestor connects between antenna lead-in and receiver/ transceiver and grounds excessive potentials. One PL-259 plug & SO-239 type socket, and large grounding screw.
Cat. D-7152 .. .. $4.20

RECEIVER CONVERTERS

$35.50

These beautiful little high performance low noise convertors are supplied completely wired and tested with high stability crystal to give tuneable I.F. output on 28–30 MHz (use any communications receiver). Extremely stable and excellent specs: 50-75 ohm input, Noise factor 5dB, gain 30dB, operating voltage 9-12 V DC @ 15 mA. Dimensions: 70x30x15 mm. Completely tested and pre-aligned. However tuned circuits may be simply re-peaked to top end of band if you wish to do so. Supplied complete with circuit.
52 – 54MHz (EXC 6): Cat D-3836 .. .. $35.50
144 – 146MHz (EXC 2): Cat D-3832 .. .. $35.50

CB TO CAR RADIO CONVERTER

ONLY
$15
WAS $32.50

What an incredible CB Converter bargain! Simply connect this little beauty into the aerial lead of any car radio and receive all of the 27MHz band (and still be able to receive normal broadcast band). Includes 26.965 – 27.255MHz CB band (all 23 channels) *plus* the marine band *plus* walkie talkie frequencies *plus* all the bands in between (including emergency services, services (army, air force, etc) bands and many, many others. Actual coverage is 26.96 to 27.98MHz. Operates off 12V DC.
Cat. D-3829 .. .. available in June $15.00

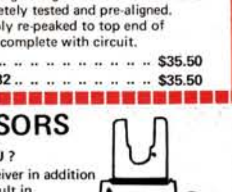
RECEIVER PRE-AMPS

$25.90

These units are designed to be simply connected between the aerial and receiver of any 10, 6, or 2 metre unit. You can even mount them right at the aerial if you require maximum performance. Input impedance 50-75 ohm, noise factor 5-6 dB gain 20-30dB, operating voltage 9–12 V DC @ 15 mA, dimensions, 70x30x15 mm. Fully wired & tested. Circuit supplied, only 4 connections required.
27 – 29MHz (ERB 27): Cat D-3827 .. .. $25.90
50 – 54MHz (ERB 6): Cat D-3806 .. .. $25.90
144 – 146MHz (ERB 2): Cat D-3802 .. .. $25.90

NOISE SUPPRESSORS

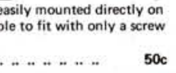
IS ENGINE NOISE BUGGING YOU ?
Ignition noises can desensitize a receiver in addition to covering up a weak signal and result in unpleasant listening.
YOU CAN CUT IT OUT FOR A FEW CENTS WITH ONE OF THESE SUPPRESSORS



GENERATOR NOISE SUPPRESSOR

Heavy duty 0.5 uF - 100 Volt capacitor easily mounted directly on to the generator, coil or distributor. Simple to fit with only a screw driver.
Cat. A-7902 .. .. 50c

INLINE DISTRIBUTOR SUPPRESSOR



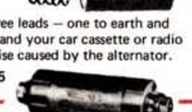
Connect anywhere in coil wire to eliminate or reduce distributor noise. Simply cut center (coil) distributor wire and push cut ends into suppressor.
Cat. A-7904 .. .. 50c

SPARK PLUG NOISE SUPPRESSOR

A spark plug cap with built in 50 k-ohm resistor. Installed simply by connecting between plug lead and plug. No tools required.
Cat. A-7908 .. .. 65c

ALTERNATOR NOISE SUPPRESSOR

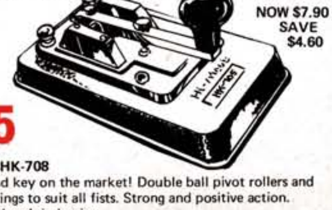
This capacitor type suppressor has three leads – one to earth and the other two between the alternator and your car cassette or radio Reduces or eliminates the whining noise caused by the alternator.
Cat. A-7924 .. .. $1.95



DE-LUXE ALTERNATOR FILTER
IDEAL FOR TRANCEIVERS
This is a coil type filter wound on a high density ferrite core. Guaranteed to remove those tenacious high frequency noises that other filters let through. Very easy to install.
Cat. A-7926 .. .. $9.50

MORSE CODE.... ..

Learn Morse the easy way. Imported exclusively by us from the USA, these Morse tapes will teach you the easy, convenient way. Speeds from 5 to 15WPM in graduated, easy-to-learn steps. Ideal for Novice licenses and Z calls – come on, give it a go!
Cat. D-7106 .. .. ~~$12.50~~
NOW $7.90
SAVE $4.60



$23.75

HI-MOUND HK-708
The best hand key on the market! Double ball pivot rollers and adjusting springs to suit all fists. Strong and positive action. Contacts for break-in keying.
Cat. D-7104 .. .. $23.75

COMM. MICROPHONES

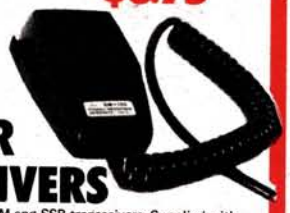
NOISE-CANCELLING MICROPHONE

Ideal for amateur or CB use. Noise cancelling is achieved by the use of twin inserts which are out of phase. Fitted with high quality PTT switch and coiled lead — and now with slider volume control. Impedance 250 — 600 ohms, freq. response from 300 — 5000Hz. You could pay over $30.00 for a unit like this: look at our price!
Cat. C-1105 .. .. $8.90

$8·90

$8.75

DYNAMIC MIC



IDEAL FOR TRANSCEIVERS

Designed especially for AM and SSB transceivers. Supplied with 5 wire (4 wire plus shield) 2 metre lead that will adapt to any transceiver — even units with electronic switching. Has nominal 50k output impedance, but the insert itself is 600 ohms. By wiring direct to the insert (bypassing the transformer) this impedance is available. C-1102 .. .. $8.75

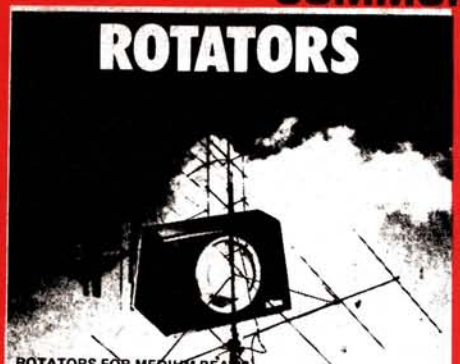
KENWOOD MIC

Kenwood communications microphone, designed for use with the TS520 and TS820 transceivers, but can be used with any other make or model of transceiver. It features two piano-type keys for PTT (push to talk) and lock-on-transmit. Mic is dual impedance — can be switched either high or low. Frequency response is 300Hz — 2.8kHz, the range required for maximum communications quality. Real class for your station!
Cat. C-1110 .. .. $49.50

$49·50

...A TOUCH OF CLASS

ROTATORS



ROTATORS FOR MEDIUM BEAMS
Handles quite large beams (though not the monsters!) for 2, 6 10 & 11 metres, and, with care, 15 & 20 metres (though we wouldn't use one where high winds are common!). Also very good for TV & FM antennas. Uses 4 wire cable.
Cat. D-5022 .. .. $95.00

BUDGET ROTATOR FOR SMALL & MEDIUM BEAMS
Designed for the mass market of TV & FM antennas, this rotator is also ideal for 11, 6 & 2 metre amateur band beams. Provision is made for guying right at the rotator for maximum strength — a good point. They have an attractive control box; use 4 wire (W-2040) cable for connection.
Cat. D-5020 .. .. $63.50

ROTATOR CABLE
For use with either of our rotators. This is a four conductor cable, all insulated, with heavy duty PVC sheathing to protect it against the weather and give years of reliable service.
Cat. W-2040 .. .. 60c/metre

JUMPERS

You should't really use crocodile clips and hook-up wire at RF, should you?

52 OHM ADAPTOR LEAD
4 metres of RG58U 50 ohm cable, fitted with a standard PL259 plug at one end, and spade lugs at the other. Just what you need for antenna installations at home or for your mobile.
Cat. W-1372 .. .. $3.25

52 OHM CONNECTOR LEAD
1 metre of RG58U 50 ohm cable, fitted with standard PL259 plugs at both ends. No messy soldering to do, no chance of shorts when you do it yourself. Ideal lead for connection of transceivers, etc, to SWR meters, test instruments, adaptor plugs, preamps, Signalizers, etc.
Cat. W-1370 .. .. $3.00

AIR—WOUND COILS

Now there's no excuse! You can really make antenna loading units and high power linears with our high quality air dux coils. Each coil is separately boxed with an incredibly simple chart which shows at a glance the turns No/inductance/capacitance necessary for resonance at any frequency. All coils are 155mm long (6") and are bright tinned copper wire.

No.	Diam. (mm)	Wire Diam (mm)	Pitch per Turn	Cat.	Price
200816	20	0.8	1.6	D-7050	$4.70
401016	40	1.0	1.6	D-7052	$5.50
402042	40	2.0	4.2	D-7054	$6.60
602042	60	2.0	4.2	D-7056	$7.90

MICROPHONE COMPRESSOR

D-7190

MORE OOMPH FOR YOUR RIG! $47·50

Yes! You can obtain up to double your signal strength with very little loss in clarity with this FET/IC microphone compressor. It operates from 6 internal penlite batteries, and it's slim vertical look ideally suits it's mounting beside your other equipment.
Works on the principle of reducing audio peaks of voice modulation, thus allowing a higher average level of audio to be used without overloading.
Specifications as follows: Compression level 25dB maximum fully variable — Microphone impedance 100 ohms to 50k — Distortion 1% or less — 10dB output — Frequency response 100Hz — 7kHz ±2dB (300 Hz to 3kHz with audio filter on) — S/N ratio –60dB — Power 9V @ 15mA max — Size (mm) 50 x 170 x 110. Complete with circuit & instruction book.
Plugs are wired to suit Yaesu FT-101 series transceivers. See circuits on page 78 for other brands mic plug wiring.
Cat. D-7190 .. .. $47.50

CRYSTALS.....

WE HAVE A TREMENDOUS RANGE OF CRYSTALS FOR AMATEUR' CB, BOATING', PROJECT AND EXPERIMENTAL USE: Ask at one of our stores for the crystal you require. It may well be one we carry in stock. See page 68 for listing of some of our 27MHz crystals.

COMM. SPEAKERS

REMOTE SPEAKER

IDEAL CB RADIO SPEAKER FOR BOAT OR CAR

ONLY- $9·50

Extensively used in mobile installations to bring the sound close to the driver. Any angle mount allows installation in a variety of places. Designed to handle high volume without distortion. Professional looking black ABS Resin Case, may also be used without bracket on base stations for improved fidelity at voice frequencies. 8 ohm impedance for all transceivers.
Supplied complete including 8' of lead and 3.5mm plug. Plugs into external speaker or headphone jacks.
Cat. A-2451 .. .. $9.50

HORN SPEAKER

SPECIAL

$8·90

A miniature rugged weatherproof horn, rated at 8 ohms, 5 watts. Approx. 125mm in dia. Ideal for installing in your car, truck, etc as an extension speaker for your CB or as a PA speaker. Supplied with mounting base. Highly efficient type of speaker.
Cat. C-2705 .. .. $8.90

HOW TO HAVE YOUR CB AND KEEP IT TOO:

IMAGINE IF YOUR CB RIG WAS STOLEN! IT CAN'T HAPPEN IF YOU TAKE IT WITH YOU . . .
We have two mounts designed to allow you to do this: the first an under dash mounting slide. Has heavy duty runners and phosphor bronze contacts. When you leave your vehicle you undo the antenna lead and slide the rig out — the wiring stays with the car and you stay with your rig. If it gets knocked off, so do you!
Cat. D-7210 .. .. $5.95

ALSO IDEAL FOR CAR STEREO

$5·95

$7·50

FLOOR MOUNTING MOUNT:
This is ideal for those cars (and there are millions of them) where every spare inch of space is taken up, and about the only place to mount a rig is in mid-air above the transmission tunnel. It can be swivelled in 3 directions, mounts on any shaped surface — as uneven as you like.
Cat. D-7214 .. .. $7.50

MAKE YOUR OWN BEAM ANTENNAS

INSULATING NYLON BRACKETS
High quality nylon element brackets will accept 10mm elements, up to 17mm booms. Bracket attaches element & boom together by plated bolt & wing nut.
Cat. D-4650 .. .. 55c ea.

FOR BIGGER BEAMS:
Use our metal bracket. This one will take up to 17mm elements and 20mm boom. The bracket itself is cadmium plated against corrosion.
The bracket can also be used as a boom to mast bracket for, needless to say, 17mm booms.
Cat. D-4652 .. .. 80c ea

24 HOUR HAM CLOCK

$32·50

Every ~~home~~ ham should have one!

Battery operated clock with 24 hour movement. Time zoned, with amateur calls for whole world. Features attractive modern styling with brushed alum. front panel and a curved perspex clock front. Tells at a glance whether it is day or night anywhere in the world. **Now you can tell whether your contact is at his key or snoring his head off . . .**

Uses 1.5V 'D' cell - life approx. 12 months.
Cat. X-1053 .. .. $32.50

think of yourself as an
antenna expert!
—you select your components!

UNIVERSAL 27MHz MOBILE OR MARINE

Roof - Bumper - Trunk - Mudguard - Boat
NOW $5.00 LESS SAVE! SAVE! SAVE!

This very popular base loaded antenna can be mounted on the boot lid without drilling holes — special mount supplied at no extra charge — or on the vehicle roof by drilling one hole — no need to remove head lining. Rustproof stainless steel, 44 inch mast. Antenna rod adjusts for precise SWR. Price includes special spring, coax cable and PL-259 plug.
Cat. D-4450 ..... **$22.50**

WHITE KNIGHT HELICAL *FANTASTIC*

MARINE OR MOBILE

Designed especially for Dick Smith — this is the ultimate CB Mobile antenna! A tremendous fully flexible, 5 feet long! Supplied with plenty of coax cable already fitted with a PL-259 connector one end and lugs the other.
One of our versatile UNIVERSAL bases is also supplied to enable you to install your antenna immediately, without the need to solder or drill holes in your car. The standard 3/8", 24 TPI thread on the antenna base gives you a wide choice of other mounts to select from to suit your particular requirements.
Cat. D-4076 ..... **$29.00**

GUTTER MOUNT

Designed to simply clip on to the rain gutter of any vehicle. Features no hole installation and can be installed or removed instantly without tools. Antenna has center loading coil to increase the effective length of your antenna whilst keeping it compact. Ample coax cable pre-fitted with PL-259 plug is included.
Cat. D-4411 ..... **$19.50**

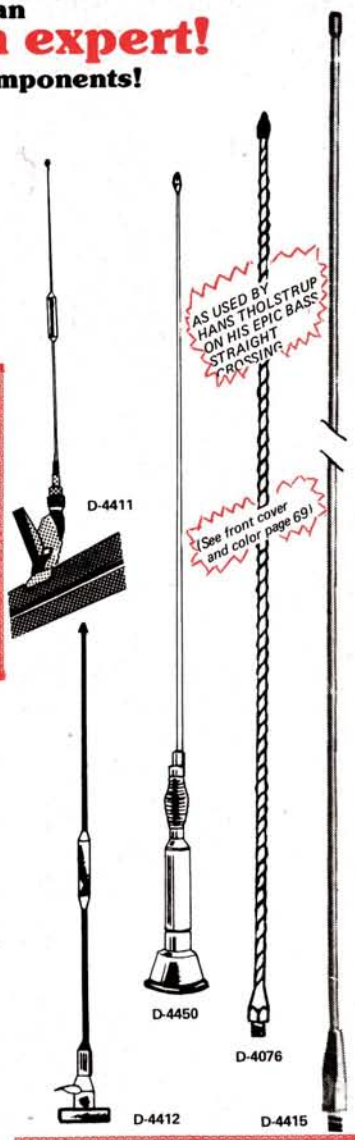
MAGNETIC MOUNT ANTENNA

Center loaded stainless steel construction with heavy duty magnetic base, 16 ft. of heavy duty coax with PL-259 plug pre-fitted. Ideal for "INSTANT" mobile use.
Cat. D-4412 ..... **$22.50**

STEEL WHIP

A BEAUTY! FANTASTIC 9 FEET LONG

This all stainless steel whip is ideal for mobile or marine installations. Mounts directly on to D-4502 base or D-5108 bumper mount.
A REAL BARGAIN AT THIS PRICE!
Cat. D-4415 ..... **$10.50**



UNIVERSAL "MINI" HELICAL

(ALSO KNOWN AS RUBBER DUCK)

Perfect for hand-held sets, especially in situations where a long telescopic can get in the way. In vehicles etc. You may even require a replacement now because you've jammed your antenna in the door.
These are very flexible and virtually indestructable, being only 12" long.
May be attached to existing antenna (when retracted) with a thumb screw or used as a replacement antenna.
Transceiver performance will not be affected because of the high efficiency of this antenna.
Cat. D-4629 ..... **$10.50**

COMBINATION ANTENNA CB BC FM

Put everything through the one antenna! Simply replace your existing car antenna with this one and you'll be able to use your CB Radio on transmit and receive without interference to your broadcast receiver and visa versa.
The base loaded telescopic, high efficiency antenna can be adjusted for optimum SWR on CB.
Locks down when not in use.
Only 200mm (8") clearance required.
All connecting cables and fittings are supplied made up so that you can install the unit and connect it up without soldering or special tools.
Cat. D-4418 ..... **$33.00**

STAINLESS STEEL BALL MOUNT FOR DECK, FENDER OR ANY FLAT SURFACE. *US MADE BY HUSTLER*

Heavy 2" reinforced stainless steel 180° adjustable ball mount easily supports the heaviest mobile antenna. Includes cyolac base, steel back-up plate and mounting hardware.
Cat. D-4170 ..... **$28.50**

COWL MOUNT *HUSTLER*

Requires only a 1" hole for installation. Includes 180° swivel ball and SO-239 connectors.
Cat. D-4180 ..... **$12.00**

SWIVEL BALL MOUNT

Heavilty chrome plated. Slant split for greater strength. Ideal for boats and vehicles.
Cat. D-4502 ..... **$8.90**

PLATED STEEL SPRING

Specially designed to take up to 120" whip, Will bend through 90° without breaking.
Cat. D-4503 ..... **$9.90**

QUICK DISCONNECT

Enables you to remove your antenna from its mount with an easy press and twist — saves antenna being stolen.

Stainless steel construction.
Cat. D-4508 ..... **$7.90**

UNIVERSAL STUD MOUNT

Accepts 3/8" 24TPI thread and comes complete with mounting plate grounding lug. Made of top quality plated steel and nylon insulated bushings. Mount requires ½" hole. *FOR COWL ROOF OR MAGNETIC MOUNTING*
D-4510 ..... **$2.50**

UNIVERSAL MIRROR MOUNT

Clamps to your car mirror or roof rack as a support for standard aerials. A half inch hole is located on this bracket for attaching the stud mount (D-4510 less centre plate). Made of high quality plated steel.
Cat. D-4512 ..... **$3.75**

TRUNK LIP MOUNT

This is a semi-fixed mount which requires no hole for boot or bonnet lid and only a small hole if used on the roof. Very economical! *USE WITH D-4510*
Cat. D-4619 ..... **$4.50**

MAGNETIC BASE MOUNT
REALLY VERSATILE
QUICK REMOVAL AND STOWAGE

Uses an incredibly powerful magnet! No need to drill any holes — just place on any ferrous metal body almost anywhere and it sticks with a nylon gasket to prevent any possibility of scratching. *USE WITH D-4510*
Cat. D-4623 ..... **$11.50**

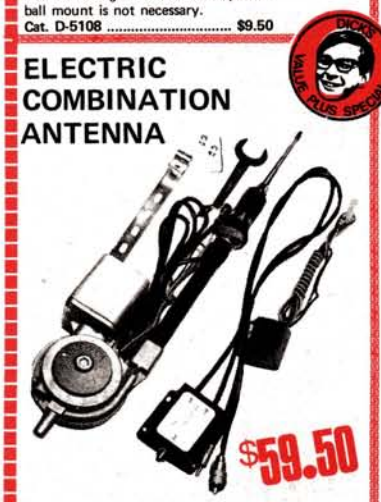
GUTTER GRIP MOUNT

A sturdy, easy to fit accessory for your car. Made of non-corrosive alloy.
Fit one each side for DUAL WHITE NIGHT antennas. *USE WITH D-4510*
Cat. D-4625 ..... **$8.50**

BUMPER MOUNT ASSEMBLY

This ingenious mount enables you to mount antennas directly on most bumpers without drilling holes. Features zinc plated mount and stainless steel strap. Fully insulated design means that a separate ball mount is not necessary.
Cat. D-5108 ..... **$9.50**

ELECTRIC COMBINATION ANTENNA



Similar to the D-4418 with the added convenience of electrical operation.
The SWR can be easily adjusted for best performance by a trimmer in the base load.
Only 300mm (1 foot) clearance required. under fitting point and 25mm (1") hole.
Cat. D-4419 ..... **$59.50**

ACCESSORIES
TO SUIT ALL ANTENNAS WITH 3/8"x24 MOUNTS

THE ABOVE ACCESSORIES ARE IDEAL FOR KNIGHT OF THE ROAD ANTENNAS

WHITE KNIGHT OF THE ROAD *NEW*

The top loading of this antenna gives terrific performance.

POWER COIL — SUPER SIGNAL

Complete pack contains fibre glass aerial stainless steel adjustable tip, trunk lip mount, adequate length of RG-58 coax cable, connector and roof mount bracket. The aerial is only 50" long, made of heavy duty fibre glass, USA designed — maximum power 200 Watts, Low SWR base 3/8" 24 TPI thread.
Cat. D-4452 ..... **$29.50**
(See color page 70 for good pictures)

TRUCKER'S WHITE KNIGHT DUAL *NEW*

TURN ON WITH THESE TWO!

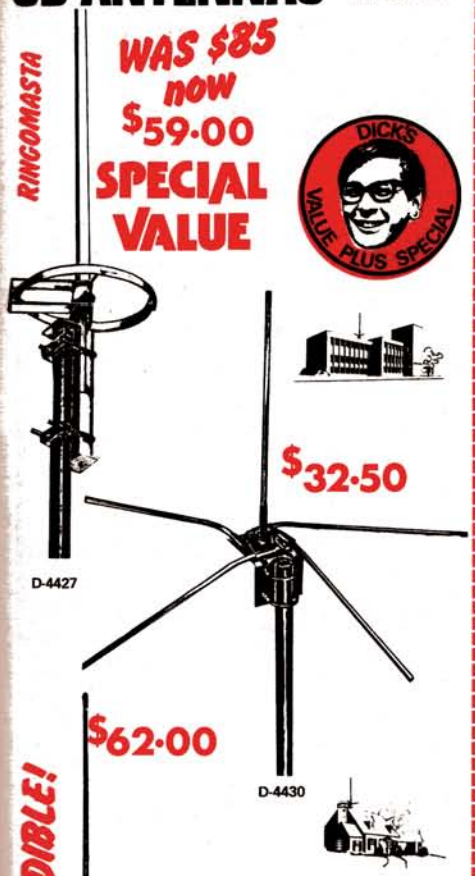
Dual phased antennas — high quality top - loaded 48" twin fibre glass masts mount securely on vertical or horizontal mirror brackets or luggage rack etc. Standard 50 ohm impedance. Set comes complete with rust resistant hardware, co-phased cables with solderless conn ections, PL-259 connectors attached. Kit includes plenty of cable and mirror mount aerial bases have standard 3/8" 24 TPI thread.
Cat. D-4454 ..... **$49.50**

CB ANTENNAS 27MHz

RINGOMASTA

WAS $85 now $59·00 SPECIAL VALUE

DICK'S VALUE PLUS SPECIAL



WHITE SWORDFISH INCREDIBLE!

27MHz BASE ANTENNA

TOP OF THE LINE

High gain, broad frequency range, rigid construction, SWR better than 1.5:1. 5.5 metres (17 feet) high and mounts on masts up to 1.5" (38mm) in diameter. Perfect match for 50 ohm coax. Revolutionary design, easy to adjust, minimum installation time.

* Engineered for high performance operation.
* All weather resistant construction.
* Ideal for boat club use.
* Omni-directional panel.
* The best angle of radiation for maximum groundwave.

Cat. D-4427 ..... $59.00

27MHz FIXED BASE STATION AMAZINGLY LOW PRICE!

Dual purpose ground plane with high strength elements. Supplied ready for 27MHz band or may be used on any frequency between 25 and 50MHz. Maximum power 1kW.
Cat. D-4430 ..... $32.50

NO GROUND PLANE REQUIRED

27MHz MARINE ANTENNAS

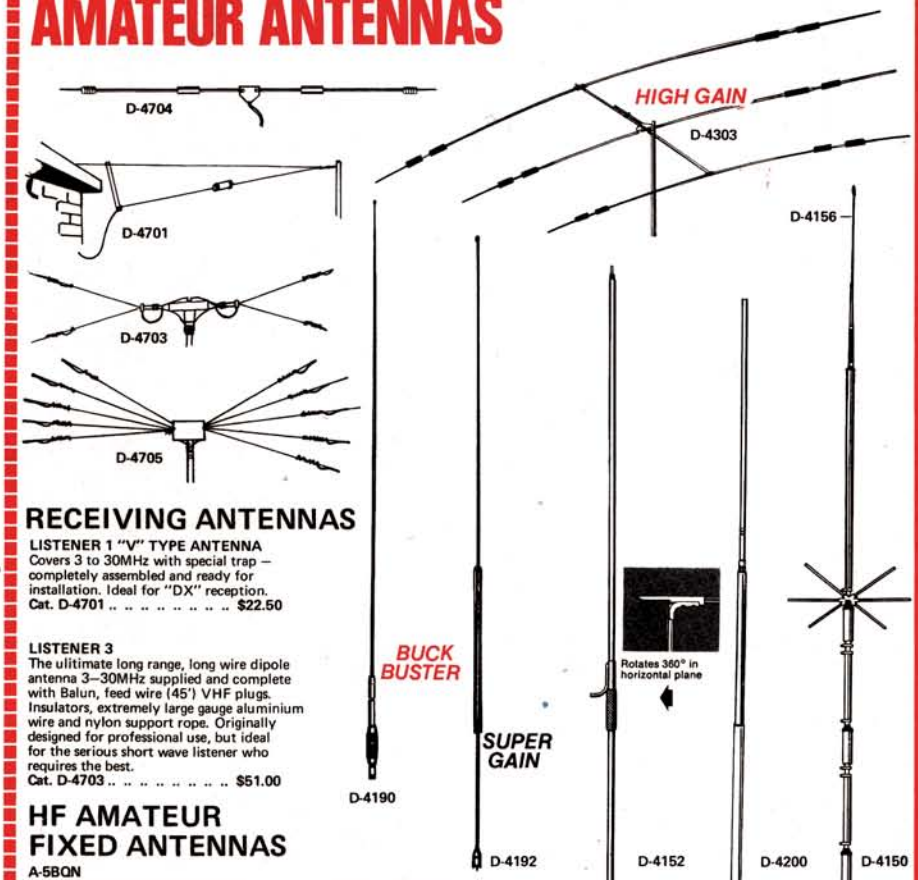
For inexpensive, high performance marine use we suggest the;

WHITE NIGHT HELICAL D-4076
(See previous page)
This Antenna was used by Hans Tholstrup on his epic Bass Straight crossing.

WHITE SWORDFISH D-4070

Top of the marine range! Designed for use on fibreglass boats where a "ground plane" is not used. Antenna is 9 feet long and complete with mounting bracket, loading coil, coax and PL-259 connector. With this antenna a 1.1. SWR is assured under even the most difficult conditions. Ideal where long range communications are required.
Cat. D-4070 ..... $62.00

AMATEUR ANTENNAS



RECEIVING ANTENNAS

LISTENER 1 "V" TYPE ANTENNA
Covers 3 to 30MHz with special trap — completely assembled and ready for installation. Ideal for "DX" reception.
Cat. D-4701 .. .. $22.50

LISTENER 3
The ulitimate long range, long wire dipole antenna 3—30MHz supplied and complete with Balun, feed wire (45') VHF plugs. Insulators, extremely large gauge aluminium wire and nylon support rope. Originally designed for professional use, but ideal for the serious short wave listener who requires the best.
Cat. D-4703 .. .. $51.00

HF AMATEUR FIXED ANTENNAS

A-5BQN
Deluxe multiband transmitting and receiving antenna. This is an antenna to cover 80 — 40 — 20 — 15 and 10 metres with an SWR of better than 1.2 to 1. Full 2kW rating. Wire elements are of aluminium. Comes complete with instructions, clamps, nuts, bolts, etc. Maximum length of 80 metre almost 140'. For optimum performance the BL— 50A Balun is recommended.
Cat. D-4705 .. .. $51.00

AL80 — 40
80 — 40 metre trapped dipole antenna full 2kW rating. Wire elements comes complete with complete instructions and installation hardware — a top performer. Max length for optimum results the BL-50A (D-5310) should be used.
Cat. D-4704 .. .. $51.00

4BTV HUSTLER
Four band trap vertical antenna covers 40, 20, 15 and 10 metres. Low SWR and maximum of 1.6 to 1 SWR at band edges. Strong heavy walled aluminium tubing. 52 Ohm, 2kW PEP input, Max. height 21.5' weight 7 kg. For 80 metre operation the RM 80 mobile resonator may be used at the top of the mast.
Cat. D-4150 .. .. without RM 80.. $115.00
Cat. D-4156 .. .. RM 80 only $29.50

TH3JR BEAM HI—GAIN
Three element rotary antenna for 20-15-10 metre bands. Maximum power 750W PEP. Boom length: 12', Max. element length: 24'. Impedance 52 Ohms, Weight 9 kgs. Gain Min. 8dB on all bands. This antenna is light enough to be turned using a standard TV rotator. e.g. CDR-AR.22L. See antenna accessories for details.
Cat. D-4303 .. .. $160.00

VHF AMATEUR FIXED ANTENNAS

HUSTLER G6-144
Deluxe Two-Meter Colinear for Repeater or any fixed station operation. 6dB gain over a ½ wave dipole. Maximum radiation at the horizon! Shunt fed with DC grounding. Radiator: 5/8 wave lower section, ¼ wave phasing, 5/8 wave upper section. Height 117" SWR at responance: 1.2:1 or better. Power rating: 1,000 Watts FM. Wind survival: 100 MPH. Installs on vertical pipe up to 1 3/4" O.D. SO—230 coax connector.
Cat. D-4200 .. .. $79.00

VHF AMATEUR MOBILE ANTENNAS

HUSTLER SUPER GAIN MOBILES
Model CG—144 2 Meter
5.4dB gain over ¼ wave mobile antenna. Frequency coverage — 143 — 149 MHz. SWR at resonance — 1.1:1 typical. Power rating 200 watts FM. Get big signal performance, superior receiving capability with this 85". colinear antenna. 3/8" — 24 base to fit all mobile ball mounts. Length is 85". Mount and cable not included.
Cat. D-4192 .. .. $39.50

HUSTLER "BUCK—BUSTER"
Model SF-2 — 2 Meter
51" two meter, 5/8 wave-length, 3.4dB gain over ¼ wave mboile. Designed with 3/8"— 24 base to fit your mount or a wide selection of Hustler mobile mounts. (Mount or cable not included).
Cat. D-4190 .. .. $24.50

HF AMATEUR MOBILE ANTENNAS

After careful consideration of quality, price and performance the Hustler range is still tops.

MO-1 — General purpose mast	Cat. D-4152	32.00
RM-80 — Resonator for 80 metres	Cat. D-4156	29.50
RM-40 — Resonator for 40 metres	Cat. D-4158	28.50
RM-20 — Resonator for 20 metres	Cat. D-4160	24.50
RM-15 — Resonator for 15 metres	Cat. D-4162	23.50
RM-11 — Resonator for 11 metres	Cat. D-4164	19.00
RM-10 — Resonator for 10 metres	Cat. D-4166	19.00

SEE MOUNTS D-4502, D-4503, D-5108 TO SUIT

HUSTLER QUALITY

AERIAL ACCESSORIES

EGG INSULATORS
Small white porcelain, very strong, ideal for small aerial systems.
Cat. D-5300 .. .. 80c .. .. .. 20 up .. 50c

Medium brown porcelain, very strong, designed for "big jobs" such as guy wires or extra long aerial arrays.
Cat. D-5302 .. .. $1.20 .. .. 10 up 99c

D-5302

RAK BL-50A BALUN
"T" shape design for use as centre support for dipoles or yagi antennas.
Input Impedance : 52 Ohms unbalanced
Output Impedance: 52 Ohms balanced
Input RF Power: 1kW
Insertion Loss : Less than 1dB.
Frequency Range : 3 — 30MHz
Mounting details supplied.
Cat. D-5310 .. .. $20.75

ANTENNA BALUN KIT
Contains Ferrite ring, enamelled copper wire and winding details for 1.1, to 1.9 ratio.
Input Power: 2kW PEP
Frequency Range: 3 — 30MHz
Cat. D-5350 .. .. $12.50

COMMUNICATION EQUIPMENT

Why has the TS-520 such a good reputation? Simple — it's such a good transceiver! This is the transceiver designed for the amateur who wants professional equipment — and will not settle for second best. Outstanding sensitivity — 0.5uV on most bands. High power: 200W PEP (SSB). Engineered for long lasting performance and reliability. The discerning amateur's first choice.
Cat. D-2520 .. $670.00

NOVICES

Leave those tiny rigs to little old ladies! You can quite legally use a TS520 on the 11m band with the inclusion of a special crystal. This locks the transmitter onto part of the 11m band (27.00 — 27.50MHz) Needless to say, you can't quite go as high as 27.5, and you will have to keep the wick wound down — but while you're waiting for your full license this rig will keep you happy. When you get your full ticket it will keep you even happier! Rock comes with instructions.
Cat. D-6290 .. $14.50

KENWOOD TS-820

The TS-820 allows you to 'command the band' with superb selectivity. Employs the latest phase-locked-loop circuitry. High stability VFO. Has a satin-smooth planetary drive VFO tuning dial system. The built-in monitor circuit allows you to hear your own voice during transmission. Uses an efficient noise blanker circuit. Incorporates a unique RF speech processor. During receive, a handsome, easy to read meter functions as an S-meter. The same meter display ALC level, plate current, RF output and plate voltage during transmit. (Digital display shown in photo optional extra).
Cat. D-2110.. $940.00

11 METRE MODIFICATION KIT

The TS-820 11 metre modification kit will be available in Australia in August. Novices and amateurs will be able to use this kit to adapt the TS-820 for the 11 metre band.
Cat. D-2115 .. $32.00

SP-520 EXTERNAL SPEAKER

Improved tonal quality and improved looks! This external speaker matches appearance of both 520 & 820, and is designed to reproduce sound quality which the transceivers' inbuilt speakers are incapable of doing. 8 ohms, 2W, 100 — 5000Hz. 12cm dia.
Cat. D-5202 .. $39.50

DIGITAL COUNTER DISPLAY

The digital display shown in the photo on this page is an optional extra. Increase the versatility of your TS820.
Cat. D-2112.. $176.00

VARIABLE FREQUENCY OSC

The VFO is equipped with a DRS dial of the same design as the TS-820 for excellent linearity, stability and ease of frequency reading. The digital dsiplay of the main unit also indicates frequency of the remote VFO.
Cat. D-2111 .. $156.50

VFO-520 FOR TS-520

Uses FET circuit for high stability. Unique drive mechanism with a reduction ratio of 4:1 assuring smooth tuning. RIT circuit equipped with indicator showing state of operation. Single cable connection to the TS-520, including power supply.
Cat. D-5201 .. $114.00

D-2113

$74.28

$114.00

DC-DC CONVERTOR KIT

For the TS820. Pre-wired kit; all you do is connect it up. Full circuit and installations details. Go mobile with your 820!
Cat. D-2113 .. $74.28

CW FILTER FOR 520

500Hz filter, model YG-3395, sharpens response on CW.
Cat. D-2521 .. $60.50

CW FILTER

500Hz CW filter. model YG-88C for the TS-820. Sharpens up the response for CW.
Cat. D-2114 .. $64.00

MOBILE MOUNT

Mobile mount for the TR-2200A transceiver. Stops it slopping about all over the car!
Cat. D-3211 .. $16.80

TRANSVERTORS

An easy way to get on the 2 metre band with your TS-520, TS-820 and most other transceivers. Simply plug it in and away you go . . . you're on SSB & CW. The TV506 & TV502 can be interconnected for flexibility. No cable changes are necessary when you want to go between HF, 6m & 2m. Covers 144-146MHz, SSB & CW. 50 ohms impedance. 1uV sensitivity for 10dB S/N. Image ratio and IF rejection both 60dB. Dimensions 168 x 153 x 336 mm. Power output 10 watts.
Cat. D-3502 .. . (2 metre version of above) .. $275.00
Cat. D-3506 .. .. (6 metre version of above) .. . $233.00

EUROPA B TRANSVERTOR — 200W PEP

The Europa B is a linear transmit and receive convertor from 28 — 30MHz to 144 — 146MHz. An extra crystal and crystal switch can be fitted to extend coverage. Capable of any mode the transmitter or transceiver is capable of (AM, FM, SSB, FSK, CW, etc).
Cat. D-3500 .. $275.00

D-3009

D-2110

D-2520

D-3400

D-5202

D-3110 D-3100

D-2111

D-3210

SEE OUR TREMENDOUS RANGE OF COMMUNICATIONS ACCESSORIES ON PAGE 73

D-3215

D-2521 D-2114

D-3040

D-3506

D-3502

Cat. D-3500

D-2544

THE LATEST FM TRANSCEIVER

The FDK Multi 7 was the best last year . . . The Multi Quartz 16 is even better!
Check these features:
• Frequency range 144 — 148MHz • 23 Fixed channels & 2 priority & provision for VFO • 10 watts RF output (high) or 1W (low) • Inbuilt centre zero discriminator meter for frequency adjustment • S meter and power output • Receiver sensitivity 0.7uV (20dB NQ) • Squelch sensitivity 0.5uV • Selectivity 6kHz min (—6dB) 12kHz max (—80dB) • Audio output 2.5W @ 8 ohms • Powered by 11—15V DC negative ground at 2.5A • 163 w x 56 h x 220 d (mm). 2.3kg • Unit comes complete with two sets of crystals on channels 40 & 50 (146.00 & 146.50MHz). Has microphone, mobile slide mount, manual and DC leads.
Cat. D-3009 .. $228.00

SPECIAL: Additional crystals at just $6.50 per channel if purchased with Quartz 16. That's right — for only $254 you get six channels.

CRYSTALS NORMALLY AVAILABLE
For the Quartz 16 are repeater 1,2,3,4,5,6,7 & 8.
Cat. D-6371 .. $9.00

TR-7400A

The hottest 2 metre mobile rig on the Australian market! Features a brand new and unique squelch system with continuous tone coded squelch, tone burst or carrier squelch. Full 4MHz band coverage and **25 watts output.** It's phase-locked loop (PLL) synthesiser provides operation on 800 channels! The TR7400A's list of features goes on and on (like this copy). But even more important is it's superb performance and dependability . . . all at a surprisingly low price.
Cat. D-3400 .. $429.00

TS700A

There's more action on 2 these days — and the TS-700A is the No.1 way to get some of it. More than just FM repeaters — there's SSB DX, there's OSCAR, there's CW — all yours with the TS-700A. Full 4MHz band coverage, completely solid state — operates from AC or DC, auto. switches tx frequency 600kHz for repeater op. (146 — 148MHz)
Cat. D-3100 .. $725.00

TS 600A
What the 700 does for 2, the TS600 does for 6! Behind it's pretty face is a ruggedly built performance machine. Covers 50 to 54MHz (eat your heart out over those first 2MHz!) on all modes — SSB, FM, AM, CW . . . with 10 watts output. Outstanding piece of equipment.
Cat. D-3106 .. $699.00

SPEAKER

Companion speaker for the TS-700A and TS-600. Provides outstanding audio characteristics, styled to match & enhance transceivers.
Cat. D-3110 .. $48.60

VOX CONTROL

Vox (voice-operated switch) control module for the TS-700A & TS600 transmitters — easy operation assured!
Cat. D-3102 .. $24.00

FM TRANSCEIVER TR 2200

A high performance portable 2 metre FM transceiver. Real Kenwood quality. 146 — 148MHz coverage over 12 channels (1 channel supplied). 2W or 400mW RF OUTPUT (not input) and provisions for full mobile operation (or base) with external antenna & power provision. Nicad batter charger and case included.
Cat. D-3210 .. $192.00

TR 7200 FM TRANSCEIVER

A superb unit capable of providing consistently high performance under the most adverse conditions. 22 channel cap, display indicates channel crystals fitted. AF section doubles as PA. Diode switching employed for antenna changeover. Dust/water proof construction.
Cat. D-3215 .. $260.00

IC 202

The IC202 is a compact, 2 metre SSB & CW transceiver which covers 144 to 145MHz with 3 watts output (PEP) on ssb and 3 watts on CW. VXO operation giving 200kHz with excellent stability. Comes complete with plugs, microphone, instruction manual, carry strap and dry cells. All of these units are given a pre-sales check-out for your protection.
Cat. D-3040 .. $219.50

IC-502

Very similar to above transceiver, but this one covers part of the 6m band (52 — 53MHz). These transceivers are ideal for portable tropo. work (whip antennas are included) but may be rigged for base/mobile operation.
Cat. D-3044 .. $213.50

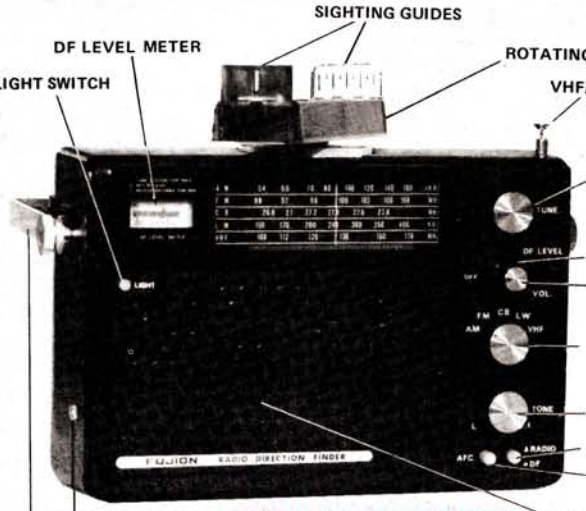
LINEAR AMPLIFIERS

200 watts input on AM/SSB, with front panel selection of 40, 20, 15 & 10/11 metres. Over 100 watts output — and full output is realised with just 3W of drive! There's also an inbuilt RF pre-amplifier for the receiver; and switching is RF actuated. Modern styling and rugged construction; 240V AC operated. Weight approx. 7kg.
Cat. D-2544 .. $299.00

10/11 METRE LINEAR AMPLIFIER

$189

Model LA-280 10/11 metre linear amplifier & RF preamp. Boosts transmit and received signals. 50 watts output from just 3W drive; incoming signals boosted by up to 20dB. Requires 12V DC (13.8V negative earth. Size 140mm x 75mm x 170mm.
Cat. D-2545 .. $189.00



GRAPHICALLY DETAILED INSTRUCTION BOOK SUPPLIED WITH EACH SET *** PLUS *** A COMPLETE LISTING OF ALL AUSTRALIAN BROADCAST STATIONS & L.W. BEACONS

An emergency navigation necessity for ALL BOATS & AIRCRAFT

At last! A 5 band radio direction finder **under $250.00!** This set has been designed to Australian requirements – equivalent direction finders cost over $250.00 and have less features.

Just remember – if your battery supply fails a million miles from Woop Woop all your navigation equipment could be useless – even if it is duplicated!

This unit is capable of extremely sharp station nulls and will obtain either cross bearings for a fast accurate position fix or a homing direction from any marine or aviation beacon or other station on the long wave band as well as any station on the standard broadcast band.

Covers the following **Australian** bands – not the useless overseas bands:

Long wave (beacon & weather) 150 – 400kHz
Covers all aircraft beacons – hear continuous weather from some beacons

Medium wave (standard broadcast band) 535 – 1600kHz – you can direction find on any broadcast station you can listen to

Citizens band 26,8 – 27.92MHz – covers marine radio channels (fishing clubs, coast guard, etc) plus 23 ch, CB sets and hand-helds, etc

FM band (frequency modulation) 88 – 108MHz standard FM broadcast band for quality listening

VHF band (very high frequency) 108 – 174MHz covers all aircraft frequencies (inc emergency beacons) VHF marine FM channels (harbour patrol, Maritime Services Board, etc)

HANS THOLSTRUP USED THE DIRECTION FINDER ON HIS RECENT BASS STRAIT CROSSING–HE STATES:
"I found the DICK SMITH DIRECTION FINDER works very well even when over 100 miles from the station. The good bearings on both Tasmanian and Victorian radio stations made navigation extremely simple."

DONT BE FOOLED – this radio is specifically designed for radio direction finding – it is not an 'adpated' portable radio. 19 transistors, 12 diodes, 3 separate RF front ends, 2 separate IF systems – that's quality!
Cat. D-2820 .. .. ..

COMMUNICATION INFORMATION

AMATEUR INFORMATION

LICENCING INFORMATION

The Post and Telegraph Department conducts during the year-examinations for Amateur Operators certificate of Proficiency at centres throughout Australia.

There are three classes of licence:-

Type 1 — Amateur Operators Certificate of Proficiency (AOCP)
Type 2 — Amateur Operators Limited Certificate of Proficiency (AOLCP)
Type 3 — Novice Amateur Operators Certificate of Proficiency (NAOCP)

Requirements for this licencing are:-

A.O.C.P. Knowledge of Radio Communication, Operation and design of Receivers, Transmitters, Aerials and basic theory. Send and receive in plain language International Morse code to a speed of 10 words for a minute (WPM). The knowledge of the Regulations covering operation of Amateur Radio Stations;

A.O.L.C.P. As above, but no morse code examination required;

N.A.O.C.P. As per A.O.C.P. but of a lower standard with questions having multiple choice answers, morse code to 5 wpm and Regulations. This is a very easy exam to pass.

BAND USAGE

A.O.C.P. All Amateur bands (see details elsewhere).
Maximum power input 400 W PEP 150 W AM

A.O.L.C.P. All amateur bands above 52 MHz
Maximum power input 400W P.E.P. 150 Watts AM

N.A.O.C.P. 3.525 to 3.575
21.125 to 21.200
26.960 to 27.230
Maximum power input 30 Watts P.E.P. 10 Watts AM
Crystal locked on transmit.

2 METRE F.M. CHANNELS SIMPLEX CHANNELS

TX– AND RX

Channel 40	146.00 MHz
" 49	146.45 "
" 50	146.50 "
" 51	146.55 "
" 52	146.60 "
" 53	146.65 "
" 61	147.05 "
" 62	147.10 "

REPEATER CHANNELS

MOBILE TX		MOBILE RX	
Channel	Repeater	Channel	Repeater
1 in	146.05MHz	1 out	146.65MHz
2 in	146.10	2 out	146.70
3 in	146.15	3 out	146.75
4 in	146.20	4 out	146.80
5 in	146.25	5 out	146.85
6 in	146.30	6 out	146.90
7 in	146.35	7 out	146.95
8 in	146.40	8 out	147.00
9 in	147.65	9 out	147.05
10 in	147.70	10 out	147.10
11 in	147.75	11 out	147.15
12 in	147.80	12 out	147.20

AUSTRALIAN NOVICE FREQUENCIES

3.525 – 3.575 MHz
21.125 – 21.20 MHz
26.96 – 27.23 MHz
Suggested Novice 80 Metre "Nett" frequencies
Channel 1 3.5350 MHz
Channel 2 3.5450 MHz
Channel 3 3.5550 MHz
Channel 4 3.5650 MHz

TEN CODE

Ten Codes vary from place to place. When you see more than one definition, we've tried to give you the most common variations.

10–1	Receiving poorly—weak signal
10–2	Receiving well—strong signal
10–3	Stop transmitting
10–4	O.K. Affirmative; Message received
10–5	Busy, stand by
10–7	Leaving air/Out of service
10–9	Please repeat message
10–14	What's the time
10–20	Location is
10–21	Call ..... by telephone
10–33	Emergency at this station
10–34	HELP needed
10–35	Confidential information
10–36	Request for correct time
10–37	Tow-truck needed at .....
10–38	Ambulance needed at .....
10–42	Traffic accident
10–90	I have TV interference
10–100	Nature calls. Restroom stop
10–102	Have a beer
10–200	Police needed at.....

NOVICE AND 11 METRE CHANNEL FREQUENCIES

Channel 1 – 26.965MHz	Channel 13 – 27.115MHz
Channel 2 – 26.975MHz	Channel 14 – 27.125MHz
Channel 3 – 26.985MHz	Channel 15 – 27.135MHz
Channel 4 – 27.005MHz	Channel 16 – 27.155MHz
Channel 5 – 27.015MHz	Channel 17 – 27.165MHz
Channel 6 – 27.025MHz	Channel 18 – 27.175MHz
Channel 7 – 27.035MHz	Channel 19 – 27.185MHz
Channel 8 – 27.055MHz	Channel 20 – 27.205MHz
Channel 9 – 27.065MHz	Channel 21 – 27.215MHz
Channel 10– 27.075MHz	Channel 22 – 27.225MHz
Channel 11– 27.085MHz	Channel 23 – 27.255MHz
Channel 12– 27.105MHz	

*** Note Channel 23 is out of the Amateur bands.**

AUSTRALIAN AMATEUR FREQUENCIES

1.80 – 1.86 MHz	420.00 – 450.00 MHz
3.50 – 3.70 MHz	576.00 – 585.00 MHz
7.00 – 7.15 MHz	1215.00 – 1300.00 MHz
14.00 – 14.35 MHz	2300.00 – 2450.00 MHz
21.00 – 21.45 MHz	3300.00 – 3500.00 MHz
26.96 – 27.23 MHz	5650.00 – 5850.00 MHz
28.00 – 29.70 MHz	10000.00 – 10500.00 MHz
52.00 – 54.00 MHz	21000.00 – 22000.00 MHz
144.00 – 148.00 MHz	

CRYSTAL ORDERING INFORMATION

MULTI 7, KENWOOD TR 2200

Tx Crystal = $\frac{\text{Reqd Freq}}{12}$

Rx Crystal = $\frac{\text{Reqd Freq} - 10.7\text{MHz}}{3}$

MULTI 11 Quartz 16

Tx Crystal = $\frac{\text{Reqd Freq}}{12}$

Rx Crystal = $\frac{\text{Reqd Freq} - 10.7\text{MHz}}{9}$

Crystals Type HC-25U
20pF Cl = 15 ohms or less
"AT" Cut

P&T LICENCING INFO FOR 27MHz MARINE EQUIP

Licences are easily obtained for our equipment — you don't have to sit for an exam. Requirements are roughly as follows, however we suggest you call the P & T Radio Branch in your State for further information.

ONE WATT UNITS (HAND-HELD WALKIE TALKIES)

The ideal unit for the small boat owner who wants safety at a budget price. These units are normally licenced in pairs and would be used for boat to shore safety communications. The operating frequency is generally 27.24 MHz. Usually a fishing party would carry one unit on the boat with them and the other unit would be left with a friend on shore. The units are hand-held and the range would be up to 30 miles over water.

FIVE WATT "HIGH POWER" UNITS

These long-range units are licenced by the P&T for fishing and boating clubs. For an individual boat owner to operate such a set he must be a member of a club which already has a base station. We suggest you become an associate member of the Australian Volunteer Coastguard Association.

In most situations, the club has the base station at the club house and members have 5 Watt units mounted in their boats. Because of the higher power and better aerials used, ranges can be up to 60 miles and many clubs report far greater ranges. The frequency allocated for this type of operation is 27.88 MHz. This frequency is used throughout Australia for club emergency services. Individual clubs may apply for an additional club activities channel. This is allocated by the P&T from one of the following frequencies — 27.89, 27.90, 27.91, MHz.

Boatowners who are not members of clubs and who want to licence a 5 Watt 27 MHz unit can normally become associate members of established clubs or the Coastguards for a nominal sum.

PROPERTY OWNERS INTERNAL COMMUNICATIONS

Property owners may obtain licenses to operate transmitting equipment on their property. At present they are permitted to have a 5 watt base station and 1 watt hand held units. This 1 watt hand held requirement may be altered in the future with the introduction of a CB service.

Frequencies are allocated between 27.88 and 27.91MHz.

Our marine equipment can have these frequencies installed and is P&T approved.

COAST GUARD RADIO STATIONS

	2524 kHz	27.88 MHz
New South Wales		
Cottage Point (Broken Bay)	VN2EC	VH2AOJ
Sydney	VH2ARK	VH2AOL
Colanda	VH2CPP	VH2AOO
Wollongong	VH2ARO	VH2ARE
Laurieton		VN2CG
Forster	—	new Jan '78
Ballina		new June '77
Queensland		
Southport	VJ4RE Both Frequencies	
Manly	VN4PQ " " "	
Yeppoon	VJ4YN " " "	
Tully	VN4TU " " "	
Townsville	VH4PP " " "	
Cairns	VM4UE " " "	
Mossman	VM4RM " " "	
Cooktown	VN4QT " " "	
South Australia		
Adelaide	—	VJ5NX
Victoria		
Frankston	VN3NZ	VH3OP

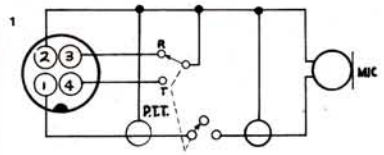
NOTE: A large number of fishing clubs, too numerous to mention, operate between Rockhampton and Adelaide on 27.88MHz.

MICROPHONE CONNECTIONS

FOR
HF AMATEUR RADIO TRANSCEIVERS

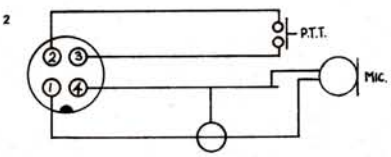
MIDLAND MODELS 830, 882, 892, 893, 895, 857.

1



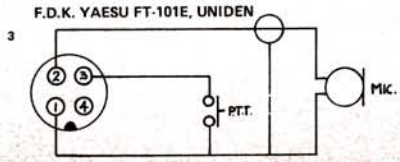
KENWOOD TS-520, 700, 600, 820, 7400

2



F.D.K. YAESU FT-101E, UNIDEN

3



AUSTRALIAN TWO METRE REPEATERS

Chan	VK1	VK2	VK3	VK4	VK5	VK6	VK7	VK8
1		Blue Mountains	Shepparton South Gippsland					
2		Port Macquarie Orange	Melbourne	Townsville Gold Coast	Port Purnell	Perth Hills	Hobart	Alice Springs
3		Gosford Wagga	Ballarat				Ulverstone	
4		South Lismore	Central Gippsland	Toowoomba Bundaberg		Perth City Albany		
5		Illawarra	Mt. Macedon					
6	CANBERRA CITY MT. MAJURA	Newcastle	Colac Swan Hill East Gippsland	Ipswich	Mt. Gambier	Bunbury		
7	A.C.T. MT. GININI	Western Zone						
8		Sydney North Dural	Wodonga Geelong	Brisbane	Adelaide	Kalgoorlie Wagin	N.E. Tasmania	
9		Sydney East Griffith						
10		Westlakes						
11		Special Purpose						
12		Spare						

BATTERIES

Because of our large turnover, batteries are always fresh, brands like Eveready, National and Philips.

TRANSISTOR BATTERIES

216	9V	Cat. S-3106	85c
276	9V	Cat. S-3205	$2.95
276P	9V	Cat. S-3210	$2.95
2362	9V	Cat. S-3200	$2.00

LANTERN OR ALARM

509	6V	Cat. S-3240	$2.50
732	12V	Cat. S-3242	$5.55

ALKALINE CELL PACKS

ALWAYS FRESH!

2 x Pencells in Blister Pack	Cat. S-3280	$1.50
2 x C Cells in Blister Pack	Cat. S-3282	$2.00
2 x D Cells in Blister Pack	Cat. S-3284	$2.00

HI-WATT BATTERIES

COMPARE OTHER BRANDS AND PRICES THEN SEE THE HUGE SAVINGS ON THESE CELLS AND BATTERIES

FANTASTIC VALUE

Specially imported, factory fresh, high capacity, long life range of cells and batteries. Look at these savings.

		1-9	10up
Cat. S-3001	D Size Metal Jacket	25c	20c
Cat. S-3002	C Size Metal Jacket	20c	18c
Cat. S-3003	AA Size Penlight	15c	12c
Cat. S-3006	216 9V Tran. Batt.	45c	35c

RECHARGABLE NICKEL CADMIUM PACKS & CELLS

DICK'S VALUE PLUS SPECIAL

12V NI-CAD PACK

Use our M-9517 CHARGER to recharge this unit.

CB USERS FITS HAND HELD UNITS

Rechargeable pack replaces 8 penlight cells, can be recharged to assure peak performance and top economy. Powers transceivers with 100 mw to 5 watt input as well as other portable equipment using 12V DC power. This is the only pack that will fit directly into set in place of existing dry cell pack.

Cat. S-3310 .. $19.50

RECHARGABLE NICKEL—CADMIUM PENCELLS

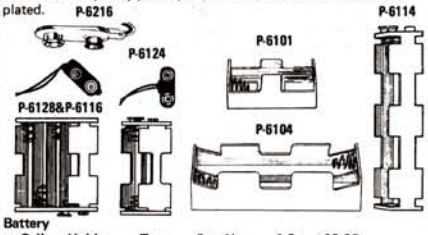
DOUBLE SAVINGS

These Ni-Cad normally sell for well over $2.00 but we slice the price to give you the first saving. Because you now have a rechargeable cell, you don't have to throw money down the drain on replacement batteries, the second saving. Ideal for radios, walkie talkies, cassettes, record players, model equipment, etc.

Use our M-9517 CHARGER to recharge these cells.	1-99	10-99
Cat. S-3300	$1.75	$1.50

BATTERY HOLDERS & SNAPS

Case made of quality plastic, all terminals and contacts are nickel plated.



Battery or Cell	Holds	Type	Cat. No.	1-9	10-99
216		Snap	P-6216	20c	15c
AA	4	Square	P-6124	50c	40c
AA	4	Long flat	P-6114	50c	40c
AA	6	Rect.	P-6116	75c	65c
AA	8	Rect.	P-6128	95c	85c
C	4	Flat	P-6104	65c	55c
D	1	Square	P-6101	45c	35c

BLACKLITE GLOBE

$3.85

An ULTRA-VIOLET incandescent lamp that fits into any normal 240V AC. light socket. The first at a reasonable price.
240v .. .. 75watts.

Cat. S-3900 .. $3.85

HI—POWER XENON FLASH TUBE

As used in ETI August 1971 Hi-Power Strobe.

SPECIFICATIONS:

Anode Voltage:	Min - 200V, Nom - 300V, Max - 400V.
Maximum energy per flash:	40 W.S.
Maximum input power (W-W.S. x Flash/Sec.):	5W
Maximum flash rate at maximum input power:	100 flashes/Sec.
Minimum trigger voltage:	4KV
Dimensions:	35 mm L x 18 mm W
Minimum life:	20 hours
Material:	Hardglass

$2.50

Cat. S-3882 .. $2.50

FLASH TUBE TRANSFORMER

90c

Suitable trigger transformer for above flash tube.

SPECIFICATIONS:

Discharge volts (Primary):	Max. 300V
Trigger capacitor:	.022MFD
Output voltage (Secondary):	4KV

Cat. M-0104 .. 90c

COMPUTALITE DIMMER

AUTOMATIC LIGHT CONTROL

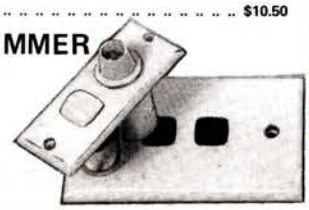
NEW MODEL

A dimmer light system controlled by an electric eye.
Insures safety and security in your home by automatically turning on room lighting as darkness approaches. In addition, you can set the light level in your room then forget it, the computalite then maintains the same level through day and night. Complete fingertip control. Will handle loads up to 500 Watts. Complete with architrave and wall plate.

Cat. X-1113 .. $10.50

LIGHT DIMMER

quality at $6.90



The light dimmer can create for you a relaxed intimate atmosphere, sets the mood for that special occasion. They are reliable, attractively styled, fitted with noise suppression circuitry for radio interference free use. Used in the home, hotels and motels, restaurants, reception rooms and hospitals.
A 500 watt unit, supplied complete with both wall and architrave plates, fully built and tested. Easily fitted, supplied with instructions. Similar units selling for twice the price.

Cat. X-1112 .. $6.90

SOANLERT

SOLID STATE RELIABLE

SIMILAR TO SONALERT
LOUDER IN OUTPUT - WATER AND TAMPER PROOF

A piezoelectric ceramic transducer audible alarm. It produces a penetrating sound by purely electronic means, the circuitry is all solid state. Compact design and low current consumption make it suitable for audible warnings alarms in computors, fire signalling equipment, instruments, medical electronics, appliances, communications, telephone signalling, protection equipment, alarm clocks.

SPECIFICATIONS:

Operating voltage:	6 – 28V DC
Operating Current:	3MA @ 6V, 6MA @ 12V, 12MA @ 24V, 14MA @ 28V
Sound output:	68 – 80 dB (depending on range)
Frequency:	2800 Hz ± 300 Hz

Cat. L-7022 .. $9.99

ULTRASONIC TRANSDUCERS

High sensitivity ultrasonic transmitter (L-7050) and receiver (L-7052) are designed for sending and receiving ultrasonic sound through the air in the form of continuous waves and pulses. Applications include – burglar alarm systems, proximity switches, liquid level meters, anti-collision devices, counters for moving objects, T.V. remote control systems, etc. Can be used in the ultrasonic transmitter and receiver in E.A. Feb. 1974, with better results than the original type used.

SPECIFICATIONS:

	Transmitter	Receiver
Resonance Frequency:	40KHz ± 1KHz	40KHz ± 1KHz
Max. input voltage:	7V/R.M.S.	
Max. input voltage for pulse operation:	60 V.P.P.	
Impedance:	200 ohms	70 Kohms
Capacitance:	1400 P.F. ± 20%	
Pulse rise time:	2Msec	.5Msec
Selectivity:	Qsv.70	Qmv.60
Transmitting Sensitivity:	Sc. 17dB ± 6 (0dB = 1 micro bar/V/metre)	
Receiving Sensitivity:		MV –56 ± 6 (0dB = 1 micro bar with a shunt resistance of 47Kohm)

Transmitter:	Cat. L-7050	$6.95
Receiver:	Cat. L-7052	$6.95

SOLID STATE BUZZER

A truly electronic buzzer, no points to fail, no R.F. interference noise generation. Designed for long life and maximum efficiency on a minimum supply current. Circuitry is all solid state silicon transistors and diodes. Protection is built into the circuit should reverse polarity be applied. Wide variety of applications including, automotive warning and monitoring, portable battery operated equipment, test equipment, alarm systems, timers, etc.

high output $1.75

Features:
- Compact – 32 mm x 16 mm x 14.5 mm
- Rich Clear tone – 45 Hz
- Wide operating voltage range 4-15V DC
- Low operating Current – 15MA @ 9V
- High output level 70 dB min @ 1 metre.

	1-9	10up
Cat L-7009	$1.75	$1.50

DELUXE TELESCOPIC

ONLY $3.50 ANTENNA

For walkie talkies or replacements on radios, new projects and field strength meters. II Section extends to 1.37 m. Tight fitting well finished chrome plated sections.

Cat. L-4902 .. $3.50

SPRING REVERB UNIT

Dick's broken the price barrier again with this new unit. The sound of many musical instruments can be enhanced by the addition of reverberation which gives life and brilliance to otherwise flat sounds. The technique has been successfully used by many musicians and groups to give added impact to their performances. The natural string decay of guitars, for example, is greatly enhanced by reverberation.

SPECIFICATIONS
Input current – 350 MA, Driving coil impedance – 16 ohm, Pickup coil impedance – 10 Kohm, frequency response – 100 to 3000 Hz, attenuation – -30dB, reverberation time – 25 to 30 msec, dimensions – 253 x 36 x 26 mm.
See article in E.A. for circuit details or send S.A.E.

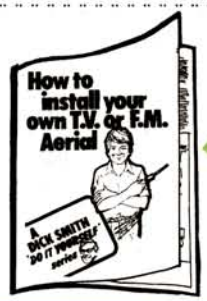
Cat. X-1035 .. $9.75

T.V. AERIALS & ACCESSORIES

INSTALL A TV AERIAL

Before installing your TV Aerial or updating old existing system, we would advise you to purchase our "How to install your own TV or F.M. Aerial". This could avoid the pitfall of totally unsatisfactory and disheartening result. IT COULD ALSO SAVE YOU $$$$$$$$$$. and unecessary inconvenience.

Cat. B-4500 .. .. 25c



DICK SMITH EXCLUSIVE

FREE WITH ANY OUTSIDE ANTENNA PURCHASE

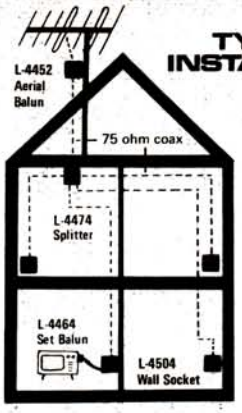
25¢

$8·90 SILVER RIBBON INDOOR ANTENNA

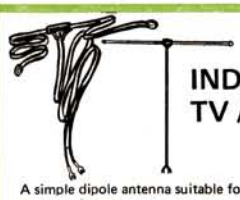
New Silver Ribbon antenna for indoor use in prime regional areas. Ideal for use with black and white or colour sets. A convenient antenna for use in apartments, home units etc., or any areas where an outside aerial is not necessary or cannot be used. It is continuously adjustable to suit all channels. It features a sliding stainless ribbon to get the most from the received signal. Complete with lead and base, can be mounted on the set horrizontally or vertically.

Cat. L-4012 .. .. $8.90

TYPICAL INSTALLATION



INDOOR RIBBON TV / FM ANTENNA

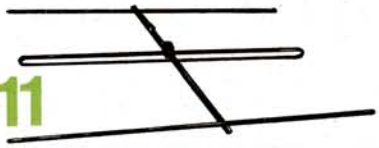


A simple dipole antenna suitable for F.M. and T.V. reception in strong signal areas..

$1·20

Cat. L-4060 .. .. $1.20

3 ELEMENT FM ANTENNA



$11

Can be mounted vertically or horizontally for reception from the new F.M. radio stations. Covers all the station frequencies.

Cat. L-4064 .. .. $11.00

Indoor spirals

SPIRAL INDOOR ANTENNA

If you're lucky enough to live in a strong signal area, you'll probably *just get by* with one of these spiral antennas – even with a colour set. But don't expect miracles if you are out of sight of the towers or over a few miles away. You then need an outside antenna.

WAS $5.20

Cat L-4010 .. .. $4.75

3110 COLOUR

$34·50

Don't be misled by the fact that it has only two elements. This is a revolutionary primary reception area design. It combines moderate gain with amazingly high directivity and front to back ratio of 7.5 to 1 on low band and 10 to 1 on high band. A reliable low cost ghost killer. It is terminated in both 300 ohm and 75 ohm for black and white or colour reception using coax. cable (no need for balun).

Cat. L-4024 .. .. $34.50

METROPOLITAN

$26

A1080

The design of this antenna is to give maximum gain on channels 0–2–7–9–10. Features overall gain and directivity. Ideal for metropolitan and near fringe areas. 300ohm termination.

Cat. L-4022 .. .. $26.00

STARFIRE

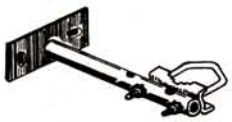
$46·00

The largest model in our range. Designed for broad band reception of response so essential for colour reception. Features include extremely high clear gain on all channels, with excellent directivity and front to back ratio. Result – high clean forward gain and virtually no unwanted pick-up from the sides or rear. The ideal antenna for all channel reception in the most difficult areas, including the deep fringe.

Cat. L-4030 .. .. $46.00

11" WALLMOUNT

$3·90



11" long, can be used for wall or barge board mounting of vertical mast up to 2" diameter. C/W "U" bolt and nest assembly.

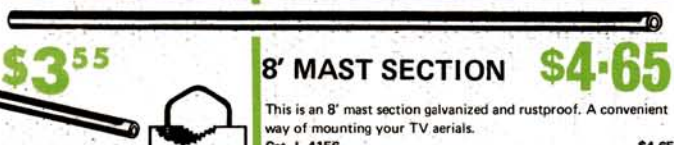
Cat. L-4152 .. .. $3.90

$3·55 27" WALLMOUNT

27" long, used for wall mounting vertical mast sections up to 2" in diameter. C/W "U" bolts and nest mounting assembly.

Cat. L-4153 .. .. $3.55

8' MAST SECTION $4·65



This is an 8' mast section galvanized and rustproof. A convenient way of mounting your TV aerials.

Cat. L-4156 .. .. $4.65

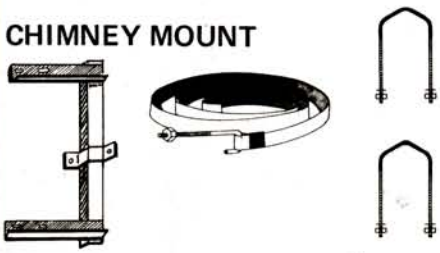
BARGEBOARD MOUNT

$5·00

Designed to mount any T.V. Antenna from a vertical surface, barge board, wall, chimney, etc. 55" long.

Cat. L-4150 .. .. $4.60

CHIMNEY MOUNT



This is a double arm, single strap, easy to mount unit. C/W mast mount assy.

Cat. L-4154 .. .. $7.35

$7.35

STANDOFF ASSEMBLY

75¢

C/W standoff and strap assembly. Used for standing off mast sections. 3.5" long. Holds ribbon or coax.

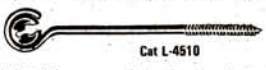
Cat. L-4512 .. .. 1-9 75c 10 up 66c

NAIL IN RIBBON STANDOFF

Suitable for running flat ribbon cable on walls, skirting boards, etc. Gives a neat professional job.

Cat. L-4514 .. .. 1-9 12c 10 up 10c

WOODSCREW STANDOFF



30¢

Holds flat ribbon or coaxial cable off walls etc. 3.5" long C/W grommet insulator.

Cat. L-4510 .. .. 1-9 30c 10 up 22c

NAIL IN COAX. STANDOFF

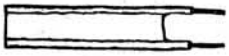
12¢

As above but suitable for coax cable.

Cat.L-4515 .. .. 1-9 12c .. .. 10 up 10c

TV & FM CABLE

300 OHM FLAT RIBBON



Flat 300 ohm twin ribbon for low loss, balanced feeder.
Cat. W-2070 .. .. 15c/m. Bulk price 100 m or more 8c/m

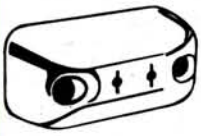
75 OHM COAXIAL CABLE

75 ohm. Low loss coax. Ideal for colour installations.
Cat. W-2080.. .. 35c/m. Bulk price 100 m or more 25c/m

TV ANTENNA CLIP

Strong plated springs with screw terminals and coloured plastic handles. Quicker way to connect or disconnect antenna lead-in cable to T.V. set, F.M. or radios, etc. Ideal when using protable sets.
Cat. L-4236 .. .. 50c

RIBBON WALL PLUG & SOCKET



Designed to mount on wall or skirting board, gives professional conection. C/W mounting screen.
Cat. P-2080 .. .. 80c

300 OHM PLUG

An individual plug as used in the above socket.
Cat.P-2082 .. .. 30c

75 OHM COAX CABLE SOCKET

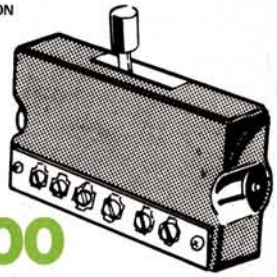
Terminates coaxial cable neatly and properly. Suits the 75 ohm wall socket.
Cat. P-2020 .. .. .. 55c

75 OHM WALL SOCKET

Mounts on wall or skirting board. Saves tripping over trailing leads when the set is not in use.
Cat. L-4504 .. .. .. $2.25

3 WAY ANTENNA SWITCH

FOR 300 OHM RIBBON



Attaches to back of TV set or any other convenient location. Gives instant 3-way switching, allows up to 3 antennas to be used with one TV or F.M. set.
Cat. L-4232 .. $4.00

BALUNS

These are special radio frequency transformers used for converting unbalanced or mismatched lines and terminations to balanced and matched operation. Used in aerial-set or set-aerial conversion from 300 ohms to 75 ohms (or vice versa).

75—300 OHMS INDOOR

This balun correctly matches 75 ohms coaxil cable to the 300 ohm terminals of your TV set or F.M. tuner. Cover 50—890 MHz with low insertion loss of 5dB. This unit can be used as an outside aerial balun if made weatherproof with plastic tape etc.
Cat. L-4464 .. .. $2.00

OUTDOOR AERIAL BALUN

This balun is designed for outside use with your existing aerial to to allow you to convert to coaxial cable. 300 ohm to 75 ohm. It comes complete with coax.plug, covers and instructions.
Cat. L-4452 .. .. $2.50

300 OHM RIBBON SPLITTERS

4 SET SPLITTER COUPLER

Handles either colour or black and white TV with absolute minimum loss of signal strength even when all sets are operating at the same time. Compact plastic case can be mounted at any convenient location near antenna lead. 300 ohms input/output impedance.
NOTE: If not all outputs are being used at once, a 330 ohm resistor should be placed across the unused outputs. Covers 50-890 MHz.
Cat. L-4220 .. .. $3.50

2—WAY SPLITTER COUPLER

As above but sets only. Covers 50—890 MHz.
Cat. L-4218 .. .. $2.50

FM/TV SPLITTER

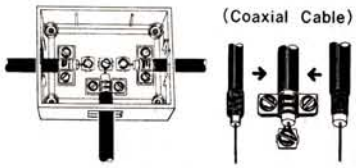
This useful accessory splits incoming signal in a standard 300 ohm. TV lead in and gives 3 different outputs: TV — VHF, FM — TV. This is ideal for a person who wants to operate his FM tuner from a normal TV antenna.
Cat. L-4210 .. .. $3.50

75 OHM COAX CABLE SPLITTERS

4-WAY COAX SPLITTER

This splitter is housed in an attractive plastic box with snap lid. It features nickel plated easy to connect screw terminations. Can be mounted in any position. Used to operate up to 4 TV sets from one aerial when using 75 ohm coaxial cable. Covers 50-890 MHz. Isolation 30 dB. Insertion loss 6.8db.
NOTE: If not all outputs used at once. a 68ohm Terminating resistor should be placed across the unused outputs.
Cat. L-4474 .. .. $4.00

2-WAY COAX SPLITTER



As above for 2 sets only. Covers 50-890MHz. Isolation 25dB. Insertion loss 3.5dB.
Cat.L-4472 .. .. $3.25

METAL DETECTORS

SUPER SENSITIVE METAL DETECTOR

How often have you needed to find a nail in a wall or in a piece of timber, locate a water or gas pipe, reinforcing steel in a building, wires and cables behind plaster?

This little beauty will do just that, and lots of other jobs requiring metal location. Has sensitivity control that can be adjusted from the smallest nail to the largest R.S.J. Indication light comes on in presence of metal up to 6" or more. (Range depends on size, shape and type of metal). Operates from single 9V transistor battery. Ideal for plumbers, electricians, builders, handymen etc.

Cat. X-1060 .. .. $9.75

TREASURE HUNTER METAL DETECTOR

Beachcombers, metal, relic, antique and artifact fossickers, here's the unit for you. Handheld, lightweight, fingertip adjustable controls, highly sensitive. Self contained, no trailing wires, aux. packs, headphones etc. The stem of the unit adjusts up to 35" long. Uses single 9V transistor battery.

The detection indication is given by an electronic buzzer built into the handle. Will find coins, jewellery, underground pipes etc., even landmines if you are that way inclined. You don't need to find a gold mine to pay for this one.

Cat. X-1062 .. .. $17.50

L. J. SILVER METAL DETECTOR

This is the latest metal detector in our range. It is similar in operation to the treasure hunter but more sensitive and versatile. The sensitivity is continuously variable by a knob on the control panel. It features a telescopic wand that is adjustable to the users armlength, a fully rotateable search head for use under all search areas. A great advantage of this unit is the dual detection system indicators, audible tone from the inbuilt speaker system and a visual indication from the easy to read inbuilt panel meter. The volume of the 'alert' tone can be adjusted from a knob on the control panel. Turning this control to the minimum position will silence the tone but visual indication will still be available on the sensitive panel meter. (Doesn't give your find away when you hot onto treasure!) An earphone socket is also provided if you require close audible detection. This is a unit suited to more serious users; lightweight with a tough black high impact plastic case.
Cat. X-1064 .. .. $49.50

BIPOLAR TRANSISTORS

TYPE	CASE	POL MAT	Vce	Vcb	IC mA	Vces @ IC	mA	Hfe @	IC mA	Ft MHz @	IC mA	Ptot mW	Use	Comparable Types
AC107	GT3	NG	15	15	10			30-160	.3	2	.3	80	Low Noise Audio	AC125–2N406
AC125	TO-1	PG	12	32	100			100	2	1.3	10	216	Audio Driver	2N406
AC126	TO-1	PG	12	32	100			140	2	1.7	10	216	Audio Driver	2N406
AC127	TO-1	NG	12	32	500			105	50	1.5	10	340	Audio O/P	AC187
AC128	TO-1	PG	16	32	1000	.6	1A	60-175	300	1	10	260	Audio O/P	AC188
AC132	TO-1	PG	12	32	200	.35	200	115	50	1.3	10	216	Audio O/P	AC188
AC187	TO-1	NG	15	25	2000	.8	1A	100-500	300	1	10	800	Audio O/P	AC127
AC188	TO-1	PG	15	25	2000	.6	1A	100-500	300	1	10	220	Audio O/P	AC128
AD149	TO-3	PG	30	50	3500	.7	3A	30-100	1A	.3	500	32W	G.P. O/P	OC26,AU106
AD161	PT1	NG	20	32	3000	.6	1A	80-320	500	.02	300	4W	Audio Amp.	AD165,2N1218,2N1292
AD162	PT1	PG	20	32	3000	.4	1A	80-320	500	.015	300	6W	Audio Amp.	AD143,AD152,AD427
AF114	TO-7	PG	15	32	10			150	1	75	1	75	H.F. Amp.	AF144,AF194,2N3127
AF115	TO-7	PG	15	32	10			150	1	75	1	75	H.F. Amp.	AF146,AF185,2N2273
AF116	TO-7	PG	15	32	10			150	1	75	1	75	H.F.Amp.	AF135,AF136,2N3127
AF117	TO-7	PG	15	32	10			150	1	75	1	75	H.F. Amp.	AF136,AF197,2N5354
AF118	TO-7	PG	20	70	30	5	30	35	10	175	10	375	V.H.F. Amp.	BFW20
ASZ15	TO-3	PG	60	100	10A	.4	10A	20-55	1A	.2	1A	30W	H.C. Sw.	OC28
ASZ16	TO-3	PG	32	60	10A	.4	10A	45-130	1A	.25	1A	30W	H.C. Sw.	OC29,AD138,AD723
ASZ17	TO-3	PG	32	60	10A	.4	10A	25-75	1A	.22	1A	30W	H.C. Sw.	OC35,AD424
ASZ18	TO-3	PG	32	100	10A	.4	10A	30-110	1A	.22	1A	30W	H.C. Sw.	OC36
BC107	TO-18	NS	45	50	100	.2	100	110-450	2	300	10	300	S.S. Amp.	BC207,BC147,BC182
BC108	TO-18	NS	20	30	100	.2	100	110-800	2	300	10	300	S.S. Amp.	BC208,BC148,BC183
BC109	TO-18	NS	20	30	100	.2	100	200-800	2	300	10	300	Low Noise S.S. Amp.	BC209,BC149,BC184
BC109C	TO-18	NS	20	30	100	.2	100	420-800	2	300	10	300	Low Noise High Gain	BC209C,BC184C,BC149C
BC157	SOT-25	PS	45	50	100	.25	100	75-260	2	150	10	300	S.S. Amp.	BC177,BC307,BC212
BC158	SOT-25	PS	25	30	100	.25	100	75-500	2	150	10	300	S.S. Amp.	BC178,BC308,BC213
BC159	SOT-25	PS	20	25	100	.25	100	125-500	2	150	10	300	S.S. Amp.	BC179,BC309,BC214
BC177	TO-18	PS	45	50	100	.25	100	75-260	2	150	10	300	S.S. Amp.	BC157,BC307,BC212
BC178	TO-18	PS	25	30	100	.25	100	75-500	2	150	10	300	S.S. Amp.	BC158,BC308,BC213
BC179	TO-18	PS	20	25	100	.25	100	125-500	2	150	10	300	S.S. Amp.	BC159,BC309,BC214
BC182(L)	SOT-30 (TO-92/74)	NS	50	10	200	.25	10	100-480	2	150	10	300	S.S. Amp.	BC107,BC207,BC147
BC183(L)	SOT-30 (TO-92/74)	NS	30	45	200	.25	10	100-850	2	150	10	300	S.S. Amp.	BC108,BC208,BC148
BC184(L)	SOT-30 (TO-92/74)	NS	30	45	200	.25	10	250-850	2	150	10	300	Low Noise, High Gain	BC109,BC209,BC149
BC186	TO-18	PS	25	40	200	.5	50	40-200	2	50	50	300	G.P. Amp.	BC213,BC177,BC158
BC207	TO-106	NS	45	50	200	.25	10	110-220	2	150	10	300	S.S. Amp.	BC107,BC182,BC147
BC208	TO-106	NS	20	25	200	.25	10	110-800	2	150	10	300	S.S. Amp.	BC108,BC183,BC148
BC209	TO-106	NS	20	25	200	.25	10	200-800	2	150	10	300	Low Noise, High Gain	BC109,BC184,BC149
BC212(L)	SOT-30 (TO-92/74)	PS	50	60	200	.25	10	60-300	2	200	10	300	S.S. Amp.	BC307,BC157,BC177
BC213(L)	SOT-30 (TO-92/74)	PS	30	45	200	.25	10	80-400	2	200	10	300	S.S. Amp.	BC308,BC158,BC178
BC214(L)	SOT-30 (TO-92/74)	PS	30	45	200	.25	10	80-400	2	200	10	300	S.S. Amp.	
BC327	TO-92	PS	45	–	1000	0.7	500	100-600	100	100	10	800	O/P	2N3638
BC337	TO-92	NS	45	–	1000	0.7	500	100-600	100	200	10	800	O/P	2N3642
BC547	SOT-30	NS	45	50	100	.6	100	110-800	2	300	10	500	S.S. Amp.	BC107,BC207,BC147
BC548	SOT-30	NS	30	30	100	.6	100	110-800	2	300	10	500	S.S. Amp.	BC108,BC208,BC148
BC549	SOT-30	NS	30	30	100	.6	100	200-800	2	300	10	500	Low Noise S. Sig.	BC109,BC209,BC149
BC549C	SOT-30	NS	30	30	100	.6	100	420-800	2	300	10	500	Low Noise, High Gain	BC109C,BC149C
BC635	TO-92(74)	NS	45	45	1A	.5	500	40-250	150	130	500	1W	Audio O/P	BC639
BC636	TO-92(74)	PS	45	45	1A	.5	500	40-250	150	130	500	1W	Audio O/P	BC640
BC639	TO-92(74)	NS	80	100	1A	.5	500	40-160	150	130		1W	Audio O/P	MU9610,TT801
BC640	TO-92(74)	PS	80	100	1A	5	500	40-160	150	130		1W	Audio O/P	MU9660,TT800
BCY70	TO-18	PS	40	50	200	.5	50	50	10	250	50	350	G. P.	BC212
BCY71	TO-18	PS	45	45	200	.5	50	100-600	10	200	50	350	G.P.	BC212
BCY72	TO-18	PS	25	25	200	.5	50	50	10	200	50	350	G.P.	BC213
BD137	TO-12G	NS	60	60	1A	.5	500	40-160	150	250	500	8W	G.P. O/P	BD139
BD138	TO-126	PS	60	60	1A	.5	500	40-160	150	75	500	8W	G.P. O/P	BD140
BD139	TO-126	NS	60	100	1A	.5	500	40-160	150	250	500	8W	G.P. O/P	40409
BD140	TO-126	PS	80	100	1A	.5	500	40-160	150	75	500	8W	G.P. O/P	40410
BD262	TO-126	PS	60	60	4A	2.5	1.5A	750	1.5A	7	1.5A	36W	High Gain Darl. O/P	BD266
BD263	TO-126	NS	60	80	4A	2.5	1.5A	750	1.5A	7	1.5A	36W	High Gain Darl. O/P	BD267
BD266A	TO-220	PS	80	80	8A	2	3A	750	3A	7		60W	High Gain Darl. O/P	
BD267A	TO-220	NS	80	100	8A	2	3A	750	3A	7		60W	High Gain Darl. O/P	
BDX64A	TO-3	PS	80	80	12A	2.5	5A	1000	SA	7	5A	117W	Darl. O/P	
BDX65A	TO-3	NS	80	80	12A	2.5	5A	1000	SA	7	5A	117W	Darl. O/P	
BDY20	TO-3	NS	60	100	15A	1.1	4A	20-70	4A	1	4A	115	Power O/P	2N3055
BF115	TO-72(28)	NS	30	50	30			45-165	1	230	1	145	V.H.F. Amp.	
BF167	TO-72(28)	NS	30	40	25			26	4	350	4	130	T.V. I.F. Amp.	
BF173	TO-72(28)	NS	25	40	25			37	7	550	5	230	T.V. I.F. Amp.	
BF177	TO-39	NS	60	100	50			20	15	120	10	795	T.V. Video Amp.	BF336
BF178	TO-39	NS	115	185	50			20	30	120	10	1.7W	T.V. Video Amp.	BF336
BF179	TO-39	NS	115	250	50			20	20	120	10	1.7W	T.V. Video Amp.	BF338
BF180	TO-72(25)	NS	20	30	20			13	2	675	2	150	U.H.F. Amp.	BF200
BF184	TO-72(28)	NS	20	30	30			75-750	1	300	1	145	H.F. Amp.	
BF185	TO-72(28)	NS	20	30	30			34-140	1	220	1	145	H.F. Amp	BF195
BF194	SOT-25/1	NS	20	30	30			65-220	1	260	1	250	H.F. Amp.	
BF195	SOT-25/1	NS	20	30	30			35-125	1	200	1	250	H.F. Amp.	BF185
BF200	TO-72(25)	NS	20	30	20			15	3	650	3	150	V.H.F. Amp.	BF180
BF336	TO-39	NS	180	185	100			20-60	30	130		3W	Video Amp.	
BF337	TO-39	NS	200	300	100			20-60	30	130		3W	Video Amp.	
BF338	TO-39	NS	225	250	100			20-60	30	130		3W	Video Amp.	
BFY50	TO-39	NS	35	80	1A	.2	150	30	150	60	50	2.86W	G. P.	
BFY51	TO-39	NS	30	60	1A	.35	150	40	150	50	50	2.86W	G. P.	
BFY52	TO-39	NS	20	40	1A	.35	150	60	150	50	50	2.86W	G. P.	
MJ2501	TO-3	PS	80	80	10A	2	5A	1000	5A			150W	Darl. O/P	
MJ2955	TO-3	PS	60	70	15A	1.1	4A	20-70	4A	4	500	115W	High Power O/P	2N4908,2N4909,2N5871
MJ3001	TO-3	NS	80	80	10A	2	5A	1000	5A			150W	Darl. O/P	

TYPE	CASE	POL MAT	Vce	Vcb	IC mA	Vces @	IC mA	Hfe @	IC mA	Ft MHz @	IC mA	Ptot mW	Use	Comparable Types
MJE2955	90-05	PS	60	70	10A	1.1	4A	20-70	4A	2	500	90W	High Power O/P	TIP2955
MJE3055	90-05	NS	60	70	10A	1.1	4A	20-70	4A	2	500	90W	High Power O/P	TIP3055
MU9610	152	NS	30	40	2A	0.4	1.5A	80-400	350	70	250	1W	O/P	TT801
MU9611	152-01	NS	30	40	2A	0.4	1.5A	80-400	350	70	250	1W	O/P	TT801
MU9660	152	PS	30	40	2A	0.4	1.5A	80-400	350	70	250	1W	O/P	TT800
MU9661	152-01	PS	30	40	2A	0.4	1.5A	80-400	350	70	250	1W	O/P	TT800
NSD106	TO-202(35;	NS	100	140		.2-.9	100	50-150	100	80	50		Driver – O/P	
NSD206	TO-202(35)	PS	100	100		.2–1	100	50-150	100	150	50		Driver – O/P	
OC26	TO-3	PG	30	50	3.5A	.7	3A	30-100	1A	.3	500	32W	G.P. O/P	AD149
OC28	TO-3	PG	60	100	10A	.4	10A	20-55	1A	.2	1A	30W	H. C. Switch	ASZ15
OC44N	TO-1	PG	5	15	10			45-225	1	7.5	1	85	R. F. Amp.	AF125,AF135,AF172
OC45	GT-3	PG	5	15	10			25-125	1	3	3	85	R.F. Amp	AF132,AF185,AF196
OC70	GT-3	PG	10	30	50			30	5	.5		125	G. P. Amp.	AC121,AC126,2N1190
OC71	GT-3	PG	10	30	50			30-75	3	.6		125	G. P. Amp.	AC126,2N2429
OC72	GT-6	PG	16	32	250			45-120	10	.35		165	Audio O/P	AC122,AC125,AC162
OC74N	TO-1	PG	10	20	300	.6	300	60-150	50	.1		550	Audio O/P	AC125,AC180,AC192
OC75	GT-3	PG	10	30	50			60-130	3	.1		125	G.P. Amp.	AC173,AC192
TIP31B	TOP-66	NS	80	80	3A	1.2	3A	20	500	3	500	40W	Power Amp – Sw.	
TIP32B	TOP-66	PS	80	80	3A	1.2	3A	20	500	3	500	40W	Power Amp – Sw.	
TIP2955	TOP-3	PS	70	100	15A	1.1	4A	20	4A	.8		90W	Power Amp – Sw.	MJE2955
TIP3055	TOP-3	NS	70	100	15A	1.1	4A	20	4A	.8		90W	Power Amp.– Sw.	MJE3055
TT797	TO-39	PS	60	60	1A			40-120	100	100		800	Audio Driver – Sw.	TT800,NSD206
TT798	TO-39	NS	60	80	1A			40-120	150	60		800	Audio Driver – Sw.	TT801,NSD106
TT800	TO-39(MOD)	PS	60	60	1A			40-120	100	100		800	Audio Driver – Sw.	TT797,NSD206
TT801	TO-39(MOD)	NS	60	80	1A			40-120	150	60		800	Audio Driver – Sw.	TT798,NSD106
2N301	TO-3	PG	32	40	3A			50	1A	.2	1A	11W	Audio O/P	AT1138,OC26
2N706A	TO-18	NS	15	25	200			20	10	200		300	High Speed Sw.	
2N2926	TO-92(74)	NS	25	25	100			150	2	100		200	G. P.	BC108 etc
2N3053	TO-39	NS	40	60	700	1.4	150	50-250	150	100	50	2.86W	G. P. Switch	BD137
2N3054	TO-66	NS	55	90	4A	.1	200	25	500	.8	200	25W	Audio O/P	TIP31B
2N3055	TO-3	NS	60	90	15A	1.1	4A	20	4A	.8	1A	115W	O/P – Sw.	BDY20
2N3563	TO-106	NS	12	30	50			20-200	8	600	8	200	R.F. – I.F. Amp.	BF173
2N3564	TO-106	NS	15	30	100	.3	20	20-500	15	400	15	200	R.F. – I.F. Amp	BF167
2N3565	TO-106	NS	25	30	50	.35	1	150-600	1	40	1	200	Low Level Amp.	BC108,BC208
2N3566	TO-105	NS	30	40	200	1	100	150-600	10	40	30	300	G. P. Amp. & Sw.	BC183
2N3567	TO-105	NS	40	80	500	.25	150	40-120	1	60	50	300	G.P. Amp. & Sw.	BC337
2N2568	TO-105	NS	60	80	500	.25	150	40-120	1	60	50	300	G.P. Amp. & Sw.	
2N3569	TO-105	NS	40	80	500	.25	150	100-300	1	60	50	300	G.P. Amp. & Sw.	
2N3638	TO-105	PS	25	25	500	.25	50	30	50	100	50	300	G.P. Amp. & Sw.	BC327
2N3638A	TO-105	PS	25	25	500	.25	50	100	50	150	50	300	G.P. Amp. & Sw.	BC558
2N3640	TO-106	PS	12	12	80	.2	10	30-120	10	300	10	200	Saturated Switch	
2N3641	TO-105	NS	30	60	500	.22	150	40-120		250	50	350	G.P. Amp. & Sw.	BC337
2N3642	TO-105	NS	45	60	500	.22	150	40-120	150	250	50	350	G.P. Amp. & Sw.	BC337
2N3643	TO-105	NS	30	60	500	.22	150	100-300	150	250	50	350	G.P. Amp. & Sw.	BC337
2N3644	TO-105	PS	45	45	500	1	300	115-300	50	200	20	300	G.P. Amp. & Sw.	BC327
2N3645	TO-105	PS	60	60	500	1	300	115-300	500	200	20	300	G.P. Amp. & Sw.	
2N3702	TO-92(74)	PS	25	40	200	.25	50	60-300	50	100	50	360	G.P. Amp. & Sw.	BC213
2N3904	TO-92	NS	40	60	200			100-300	1mA			310	Low Level Amp.	BC167A,BF194
2N4250	TO-106	PS	40	40	100	.25	10	250-400	.1	50		200	Low Level Amp.	BC559
2N4258	TO-106	PS	12	12	50	.5	50	30-120	10	700	10	200	Saturated Sw.	
2N4292	TO-92	NS	15	30	50	.6	10	20	3	600	4	200	Saturated Sw.	
2N4403	TO-92	PS	40	40	600			100-300	10			310	G.P.	BC307A,2N2904
2N5589	MT-71C	NS	18	36	600			5	100	175→	3W	15W	H.F. Mobile R.F.	
2N5590	MT-72C	NS	18	36	2A			5	250	175→	10W	30W	H.F. Mobile R.F.	
2N5591	MT-72C	NS	18	36	4A			5	500	175→	25W	70W	H.F. Mobile R.F.	
2N5871	TO-3	PS	60	60	7A	1	4A	20-100	2.5A	4	250	100W	Power Transistor	2N5872,2N4908,MJ2955
40250	TO-66	NS	50	50	4A	1.5	1.5A	25	100	1		29W	Power Transistor	2N3054
40408	TO-5	NS	80		700	1.4	150	40-200	200	100		1W	Power Transistor	BC639
40409	TO-39(H)	NS	80		700	1.4	150	50-250	150	100		3W	Power Transistor	BD139
40410	TO-39(H)	PS	80		700	1.4	150	50-250	150	100		3W	Power Transistor	BD140

FETS

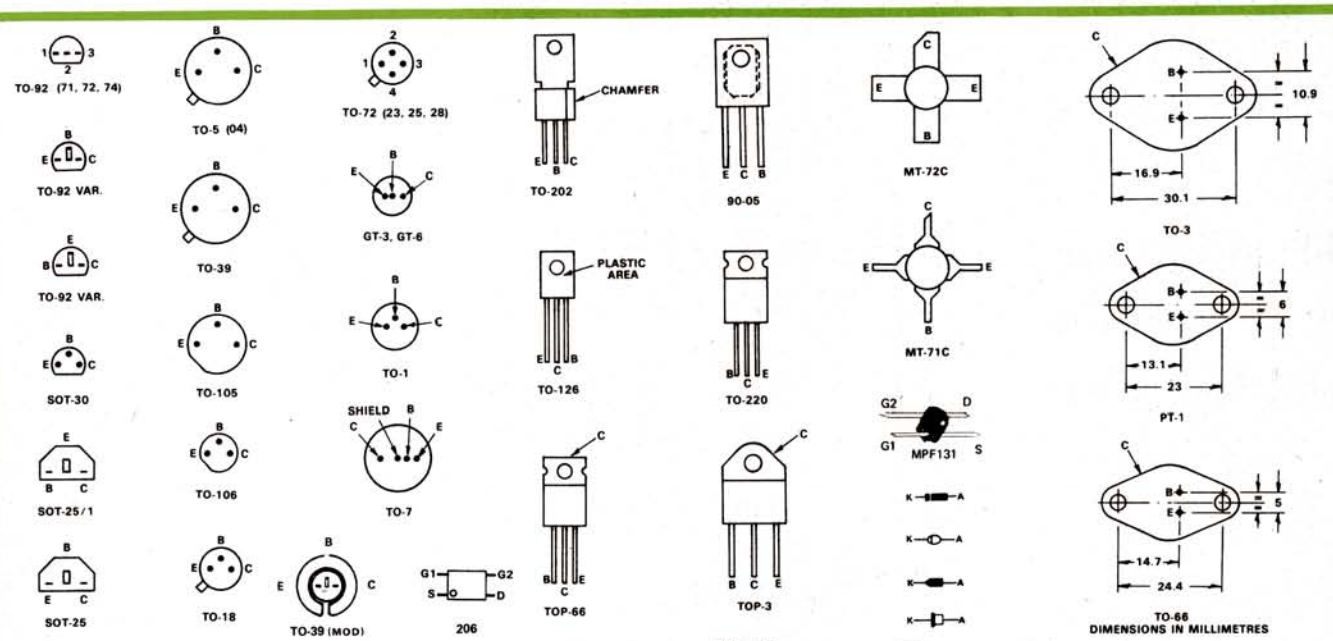
	CASE	BVGSS V	@ IG (uA)	VGS (OFF) Min	Max	@ VDS	ID (nA)	IDSS (mA) Min	Max	@ VDS	VGS	Yfs (umhos) Min	Max	@ VDS	Ptot MW	Use/Comments
MPF102	TO-92(72)	25	10	.5	8	15	2	2	20	15	0	2000	7500	15	310	N/CH Junction – VHF
MPF103	TO-92(72)	25	1		6	15	1	1	5	15	0	1000	5000	15	310	N/CH Junction – Audio Sw.
MPF104	TO-92(72)	25	1		7	15	1	2	9	15	0	1500	5500	15	310	N/CH Junction – Audio Sw.
MPF105	TO-92(72)	25	1		8	15	10	4	16	15	0	2000	6000	15	310	N/CH Junction – Audio Sw.
MPF106	TO-92(72)	25	1	.5	4	15	10	4	10	15	0	2500	7000	15	310	N/CH Junction – RF.
2N5457	TO-92(72)	25	1	.5	6	15	10	1	5	15	0	1000	5000	15	310	N/CH Junction – Audio Sw.
2N5458	TO-92(72)	25	1	1	7	15	10	2	6	15	0	1500	5500	15	310	N/CH Junction – Audio Sw.
2N5459	TO-92(72)	25	1	2	8	15	10	4	9	15	0	2000	6000	15	310	N/CH Junction – Audio Sw.
2N5484	TO-92(72)	25	1	.3	3	15	10	1	5	15	0	3000	6000	15	310	N/CH Junction – VHF
2N5485	TO-92(72)	25	1	.5	4	15	10	4	10	15	0	3500	7000	15	310	N/CH Junction VHF
BFW10	TO-72(25)	30						8	20	15	0		6500		300	N/CH Junction Audio to H.F.
BFW11	TO-72(25	30						4	10	15	0		6500		300	N/CH Junction Audio To H.F.
BFW61	TO-72(25)	25						2	20	15	0		6500		300	N/CH Junction Audio To H.F.
MPF121	206	7-20			4	15		5	30	15	0	10000	20000	15	500	N/CH Dual Gate MOS, VHF Amp.
2N4342	TO-106	20			5	10		12	30	10	0		6000	10	180	P/CH Junction – Audio, Sw.

RECTIFIERS/DIODES

TYPE	MAT	V_R	I_F (A)	V_F	@ I_F (A)	I_R (μA)	@ V_R	USE
A 14 P	S	1000	2.5	1.25	2.5	0.5	1000	Transient Protected (Controlled Avalanche)
A 15 A	S	100	5	1.1	5	5	100	G.P. Rectifier
BYX21L/200R	S	75	25	1.2	25	1.1	75	Automobile H. Duty
EM 4005	S	50	1	1.1	1	5	50	G.P. Rectifier
EM 401	S	100	1	1.1	1	5	100	"
EM 404	S	400	1	1.1	1	5	400	"
EM 410	S	1000	1	1.1	1	5	1000	"
IN 4001	S	50	1	1.1	1	5	50	"
IN 4002	S	100	1	1.1	1	5	100	"
IN 4004	S	400	1	1.1	1	5	400	"
IN 4007	S	1000	1	1.1	1	5	1000	"
IN 5408	S	1000	3	1	3	5	1000	"

TYPE	MAT	V_R	I_F (A)	V_F	@ I_F (A)	I_R (μA)	@ V_R	USE
IN 5059(A14B)	S	200	2.5	1.25	2.5	0.2	200	Transient Protected (Controlled Avalanche)
IN 5060(A14D)	S	400	2.5	1.25	2.5	0.2	400	" "
IN 5061(A14M)	S	600	2.5	1.25	2.5	0.2	600	" "
IN 5062(A14N)	S	800	2.5	1.25	2.5	0.5	800	" "
MR 110	S	100	10					G.P. Stud Mount
MR 410	S	400	10					"

DIODES	CASE	V_R	I_F (mA)	C_d ($_pF$)	V_F	@ I_F (mA)	I_R (μA)	@ V_R	T_{rr} (nS)	USE	COMPARABLE TYPES
Germanium											
AA 119	DO–7	30	100	1.2	2.2	10	150	30		AM/FM Detection Point Contact	
OA 90	DO–7	20	45		1.5	10	450	20		G.P.–Point Contact	OA70, OA80
OA 91	DO–7	90	150		1.9	10	180	75		"	OA71,OA79, OA81
OA 95	DO–7	90	150		1.5	10	110	75		"	
Silicon											
BA 100	DO–7	60	90	25	.96	10	10	60		G.P. – Alloyed	
BA 102	DO–7	20		20-45	C_d ratio 1.4 @ 4/10 V/VV					Variable Capacitance	
BA 114	DO–7		20		.7	1				Bias Stabilizer	
OA200	DO–7	50	160	25	.96	10	.1	50		Small Signal–Alloyed	
OA202	DO–7	150	160	25	.96	10	.1	150		"	
IN 914A	DO–35	75	75	4	1	10	5	75	4	Small Signal–Switching	IN 4148
IN 4148	SD–5	75	75	4	1	10	.025	20	4	"	IN 914A
5082-2800	DO–7	70	15	2	.41	1	0.2	50	0.1	Schottky (Hot Carrier) UHF Detector, Mixer, Switch	



PIN	72 (STD) T	72 (STD) FET
1	C	G
2	B	S
3	E	D

PIN	71 T	71 FET
1	C	G
2	E	D
3	B	S

PIN	74 T	74 FET
1	B	S
2	C	G
3	E	D

PIN	T (25)	FET N (25)
1	E	S
2	B	D
3	C	G
4	GND	CASE

PIN	T (28)	FET P (23)
1	B	S
2	E	G
3	C	D
4	GND	CASE

BIPOLARS
E : EMITTER
B : BASE
C : COLLECTOR
NG : NPN GERMANIUM
PG : PNP GERMANIUM
NS : NPN SILICON
PS : PNP SILICON

FETS
S : SOURCE
G : GATE
D : DRAIN
N/CH : N CHANNEL
P/CH : P CHANNEL

DIODES
A:ANODE
K:CATHODE

G.P. : GENERAL PURPOSE
S S : SMALL SIGNAL
SW : SWITCH
O/P : OUTPUT
R.F. : RADIO FREQUENCY
H.F. : HIGH FREQUENCY
V.H.F. : VERY HIGH FREQUENCY

ZENER DATA

VOLTAGE	400mW TYPES*	1 W TYPES**
3.3	IN746	
3.6	IN747	
3.9	IN748	
4.3	IN749	
4.7	IN750	IN4732
5.1	IN751	IN4733
5.6	IN752	IN4734
6.2	IN753	IN4735
6.8	IN754,IN957	IN4736
7.5	IN755,IN958	IN4737
8.2	IN756,IN959	IN4738
9.1	IN757,IN960	IN4739
10	IN758,IN961.	IN4740
11	IN962	IN4741
12	IN759,IN963	IN4742
13	IN964	IN4743
15	IN965	IN4744
16	IN966	IN4745
18	IN4112	IN4746
20	IN968	IN4747
22	IN969	IN4748
24	IN970	IN4749
27	IN971	IN4750
30	IN972	IN4751
33	IN973	IN4752

* Dissip. 400mW, Op Temp 50°C, Case DO-7 or DO-35
** Dissip. 1W, Op Temp 50°C, Case DO-41. This range will dissipate up to 3 watts @ 75°C with 10mm lead length as heatsink.

METRIC CONFUSION?

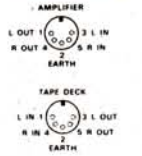
Just remember these simple conversions. The rest should take care of themselves!

1 metre equals 39.37 inches (just a bit over a yard)
1 kilogram equals 2.2 pounds (or 10% more than 2 lbs)
1 litre equals 1.76 pints (close enough to 1¾)
1 inch equals 25.4mm (or easier: a foot is about 300mm)
1 pound equals 454 grams (or 10% less than half a kilogram)
1 gallon equals 4.55 litres (same numbers as lb/kg)

TANTALUM CAPACITORS

	1	2	3	4
BLACK	–	0	x1	10V
BROWN	1	1	x10	–
RED	2	2	x100	–
ORANGE	3	3	–	–
YELLOW	4	4	–	6.3V
GREEN	5	5	–	16V
BLUE	6	6	–	20V
VIOLET	7	7	–	–
GREY	8	8	x0.01	25V
WHITE	9	9	x0.1	3V (PINK 35V)

DIN STANDARD CONNECTIONS

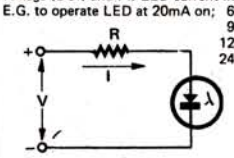


IEC CAPACITOR MARKING CODE

The IEC code is a means of marking a capacitor's value in pF as follows: first and second digits are the first and second significant figures of the value, while the third is the multiplier in terms of powers of ten. Alphabetic numbers are the tolerance, i.e. M = 20%, K = 10%, J = 5%, C = ±0.25pF. Other figures indicate working voltage, e.g. 123J 12pF x 10^3; or 12000pF (or .012uF).

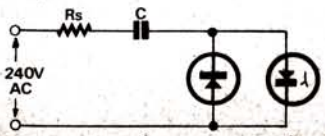
USING LEDS

When using a light emitting diode (LED) as an indicator, use the following formula to determine series resistance for various voltages: R = (E-1.7) x 1000 ÷ I; where R is resistance in ohms, E is supply voltage (DC!) and I is LED current in milliamps.
E.G. to operate LED at 20mA on; 6V, use 220 ohms
9V, " 390 "
12V, " 560 "
24V, " 1.2 k "



To operate a LED directly from the 240V mains, a better scheme is to use the second circuit shown. In this, a capacitor is used as a voltage dropping element. A 1N4148 diode or similar across the LED provides the rectification required. As the voltage drop across the LED is negligible compared with the supply, capacitor current is almost exactly equal to mains voltage divided by capacitive reactance Xc.

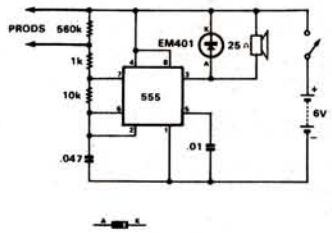
At 50Hz, 0.47uF will result in a LED current of about 16mA. Resistor Rs is to limit turn-on transients. A value of 270 ohms should be adequate.



NE555

Case b

The NE555 IC is a versatile electronic timer IC with delays ranging from microseconds through hours. It operates in both astable and monostable mode.



WATER WARBLER
ELECTRONICS AUSTRALIA DEC 75

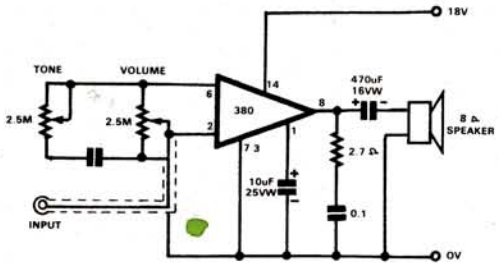
1 GROUND
2 TRIGGER
3 OUTPUT
4 RESET
5 CONTROL VOLTAGE
6 THRESHOLD
7 DISCHARGE
8 V+

MAXIMUM RATINGS: Supply voltage – 18V
Power Dissipation – 600mW
Output Current – 200mA (source or sink)
Outputs – normally on and normally off.

LM380

Case a

The LM380 is an audio amplifier IC with gain internally fixed at 34dB. It has high input impedance, low distortion and operates from a wide supply range.



ELECTRONICS TODAY DEC 74

1 BYPASS
2 NON-INVERT INPUT
3 GND*
4 GND*
5 GND*
6 INVERTING INPUT
7 GND
8 V OUT
9 NC
10 GND*
11 GND*
12 GND*
13 NC
14 V+
* – HEATSINK PINS

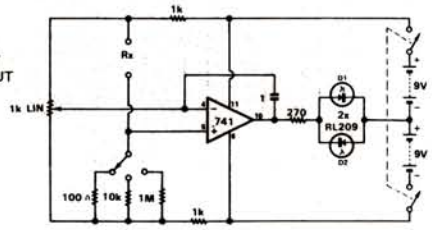
MAXIMUM RATINGS: Supply voltage – 22V
Peak Current – 1.3A
Power Dissipation – 5W
Input voltage ± 0.5V

uA741

Case a or b

The uA741 is a high performance operational amplifier with high open loop gain, internal compensation, high common mode range and is short circuit protected.

1 NC
2 NC
3 OFFSET NULL
4 INVERTING INPUT
5 NON-INVERT. INPUT
6 V-
9 OFFSET NULL
10 OUTPUT
11 V+
12 NC
13 NC
14 NC



EXPERIMENTAL OP. AMP. BRIDGE
ELECTRONICS AUSTRALIA JUN 74

1 OFFSET NULL
2 INVERTING INPUT
3 NON-INVERT. INPUT
4 V-
5 OFFSET NULL
6 OUTPUT
7 V+
8 NC

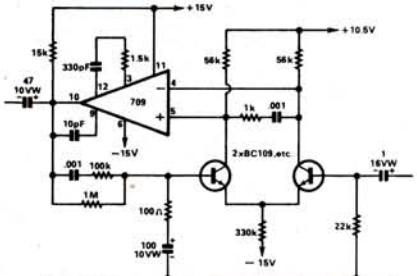
MAXIMUM RATINGS: Supply voltage – ±18V
Power Dissipation – 500mW
Input voltage – ±15V

uA709

Case a or b

The uA709 is a high performance monolithic op amp with differential inputs. It has high open loop gain, high input impedance, wide input common mode and output voltage ranges and low temperature drift.

1 NC
2 NC
3 INPUT FREQ COMP
4 INVERTING INPUT
5 NON-INVERT. INPUT
6 V-
7 NC
8 NC
9 OUTPUT FREQ COMP
10 OUTPUT
11 V+
12 INPUT FREQ COMP
13 NC
14 NC



CASSETTE REPLAY AMPLIFIER
ELECTRONICS AUSTRALIA JAN 75

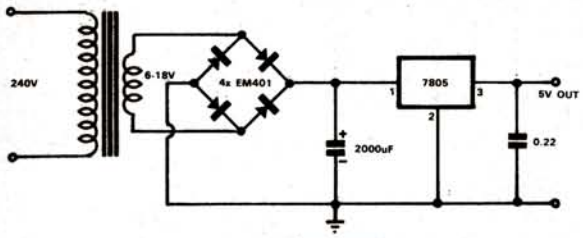
1 INPUT FREQ COMP
2 INVERTING INPUT
3 NON-INVERT INPUT
4 V-
5 OUTPUT FREQ COMP
6 OUTPUT
7 V+
8 INPUT FREQ COMP

MAXIMUM RATINGS: Supply voltage – ±18V
Differential input voltage – ±5V
Power dissipation – 250mW
Open loop gain – 45,000

7800 series

Case d

The 7800 series regulators employ internal current limiting, thermal shutdown and safe-area compensation, making them essentially indestructible. Type numbers give voltage out: E.G. 7805 is 5V, 7812 is 12V.



ELECTRONICS AUSTRALIA DEC 72

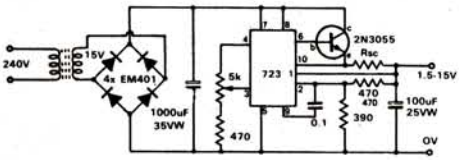
1 INPUT
2 COMMON
3 OUTPUT

MAXIMUM RATINGS: Input voltage – 35V
Output current – 1A+
Power dissipation – internally limited

uA723

Case c

The uA723 voltage regulator is capable of operation in positive or negative supplies as a series, shunt, switching or floating regulator.

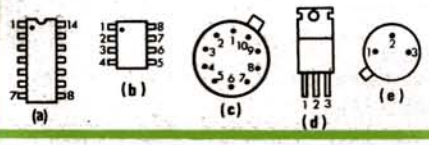


ELECTRONICS TODAY NOV 72

1 CURRENT SENSE
2 INVERTING INPUT
3 NON-INVERT. INPUT
4 V REF
5 V-
6 V OUT
7 VC
8 V+
9 FREQUENCY COMP
10 CURRENT LIMIT

MAXIMUM RATINGS: Continuous voltage – 40V
Maximum output current – 150mA
Power dissipation – 800mW

IC case outlines



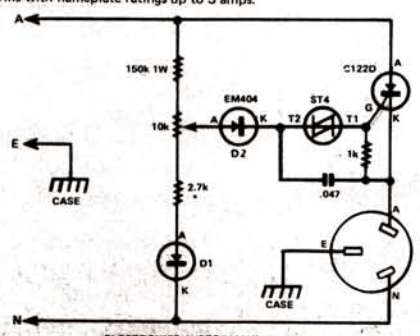
Care with MOS!

When soldering MOS (metal-oxide silicon) integrated circuits onto a PCB, more than usual care has to be taken. As well as ensuring the IC gets no hotter than necessary (as you would with the conventional ICs on this page) the following safety precautions should be taken:

- Wire all other components onto the board first.
- Make sure the soldering iron tip and barrel are reliably earthed.
- Connect the earthy supply lead of the board to the same earth until all MOS ICs are soldered in place.
- Handle the ICs as little as possible before fitting them. Leave them in their conductive packaging.
- Solder the earthy and positive supply pins of each IC to their PC pad before soldering the other pins.

SCR speed control

Need a speed control for your electric hand drill? This simple circuit allows control down to practically zero RPM, while maintaining useable torque. It is suitable for "universal" or AC-DC brush type drills with nameplate ratings up to 3 amps.

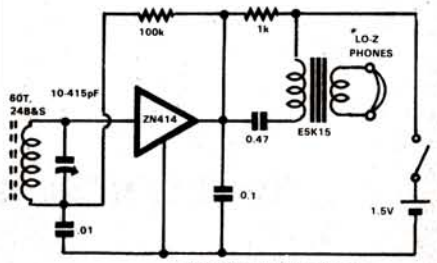


ELECTRONICS AUSTRALIA JULY 1976

ZN414 IC radio

Case e

The ZN414 is almost a radio receiver on a single chip. With the addition of a couple of components, the receiver is complete.



ELECTRONICS AUSTRALIA MAY 74

1 OUTPUT
2 INPUT
3 EARTH

Supply voltage – 1.5V
Supply current – 0.3mA
Frequency range – 150kHz to 3MHz
Output – 5 to 30mV

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WOULD YOU LIKE TO BE A DICK SMITH DEALER?

In our last catalogue in this same space we told you that we were considering a dealership network. Well, we are happy to announce that the response to this proposal was beyond our wildest dreams!

Over 120 'Dick Smith' dealers are now successfully operating — right around Australia! Many of these people are stocking almost our full range of products and many more simply become Midland CB Radio dealers who concentrate their efforts towards marketing CB Radio gear.

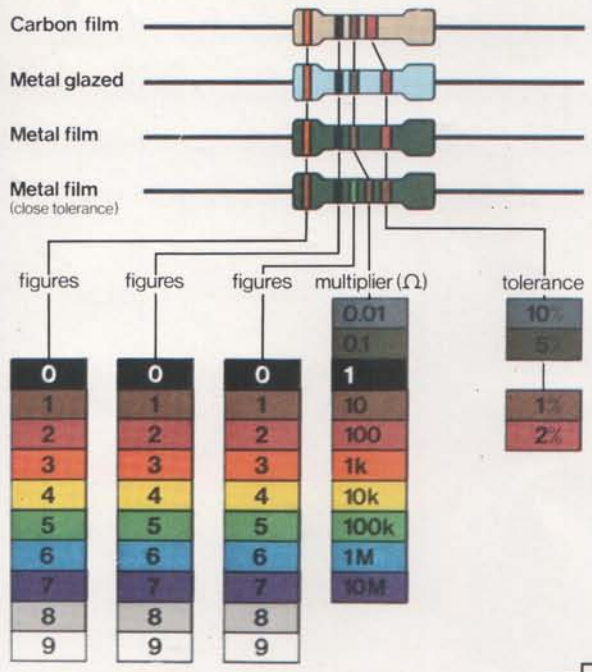
There are still gaps, however, in the Australia—wide network — especially for full dealerships. So, as I said last time, if you have management ability, technical background or a business already going, perhaps you too could join our happy band of dealers. They are enthusiasts just like yourselves but have made a career of their hobby. Interested?

For further details write to me — Garry Johnston,

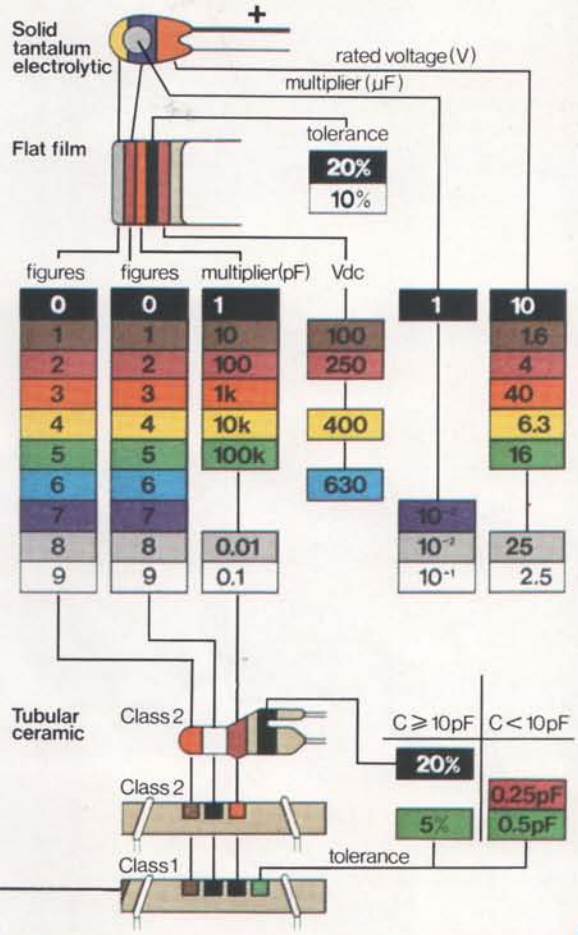
D.S. Distributors
(A division of Dick Smith Electronics Pty Ltd)
24 Carlotta St,
Artarmon. N.S.W. 2064.
Phone (02) 439-5311

Colour code

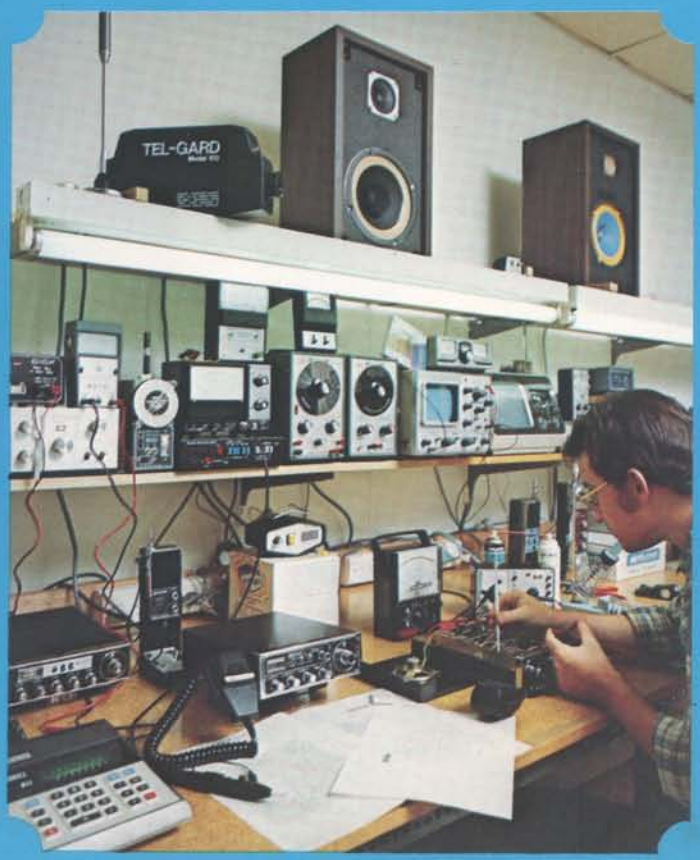
Resistors



Capacitors



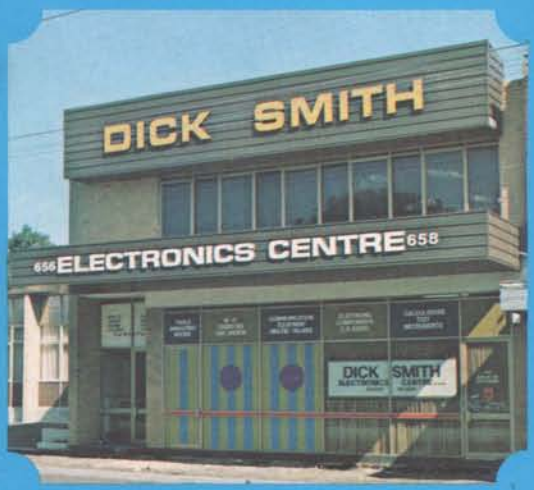
Altronics, Perth – One of the many Dick Smith Dealers



Service Department – Head Office, Sydney

AUSTRALIA'S LEADING SUPPLIERS TO THE PROFESSIONAL AND THE ENTHUSIAST

Brisbane Store

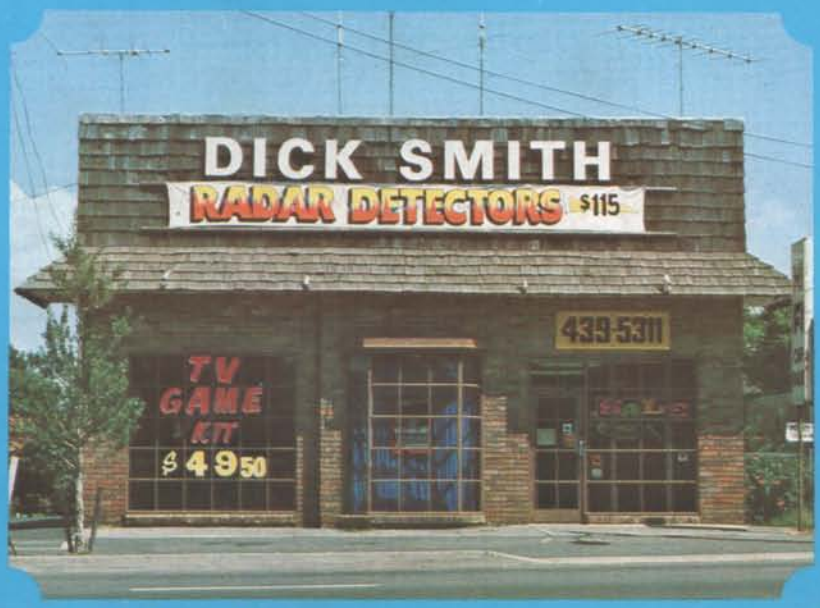


Melbourne Store

City Store – Sydney

Bankstown Store – Sydney

DICK SMITH DEALER



Gore Hill Store – Sydney